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STRUCTURE FILE UPDATES: 19 JAN 2002 HIGHEST RN 384793-11-7  
DICTIONARY FILE UPDATES: 19 JAN 2002 HIGHEST RN 384793-11-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

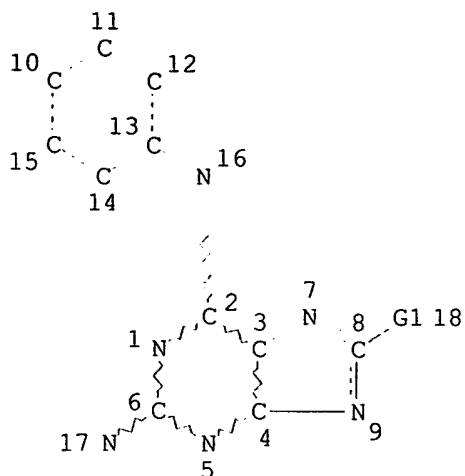
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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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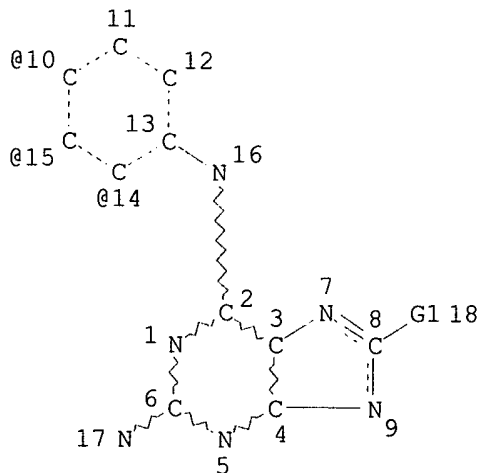
Searched by: Mary Hale 308-4258 CM-1 12D16



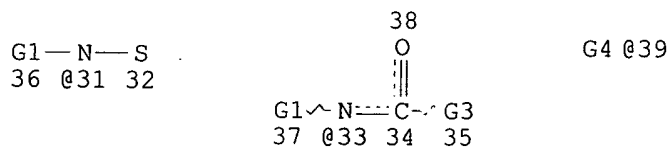
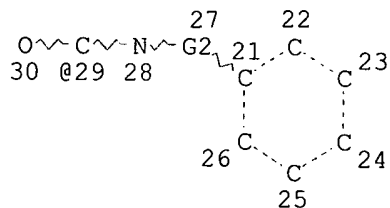
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S ~ N  
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VPA 39-14/15/10 U

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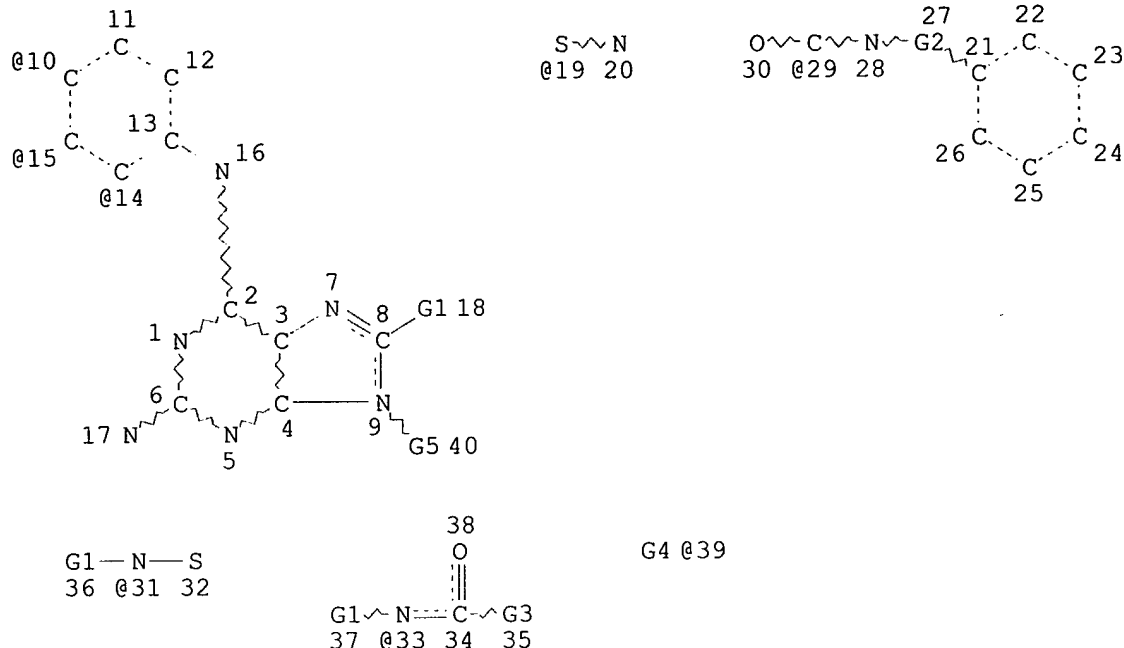
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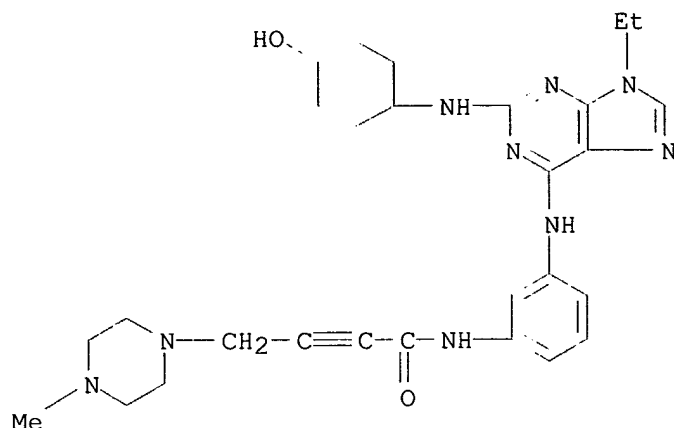
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107 ANSWERS

Searched by: Mary Hale 308-4258 CM-1 12D16

L7 ANSWER 1 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289480-12-2 REGISTRY  
 CN 2-Butynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-4-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

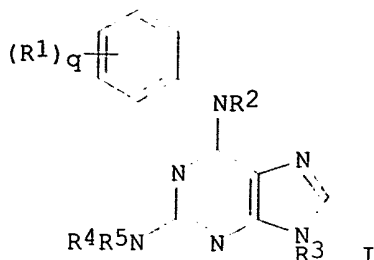


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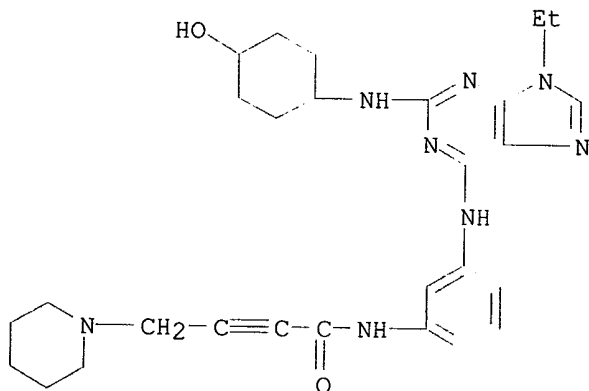
REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 2 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289480-11-1 REGISTRY  
 CN 2-Butynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-4-(1-piperidinyl)- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER



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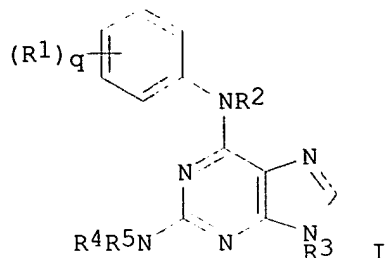
1 REFERENCES IN FILE CA (1967 TO DATE)  
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis

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A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

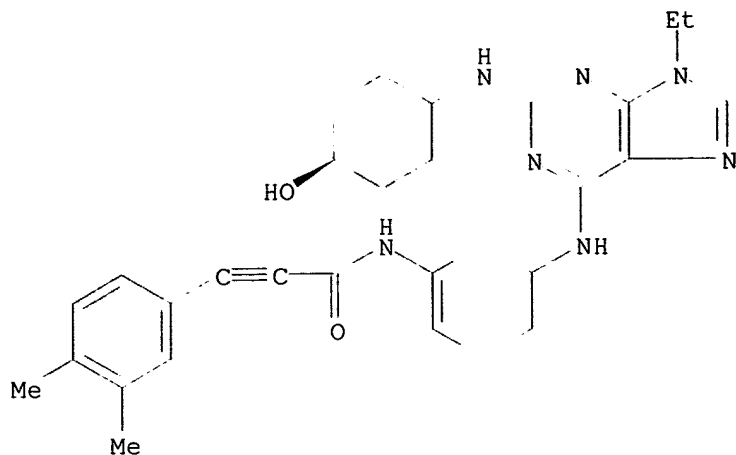
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 3 OF 107 REGISTRY COPYRIGHT 2002 ACS  
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 CN 2-Propynamide, 3-(3,4-dimethylphenyl)-N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



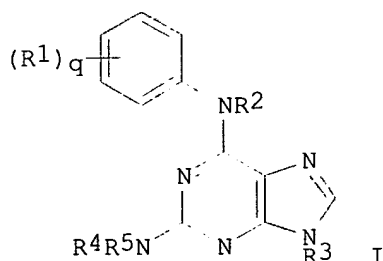
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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl,

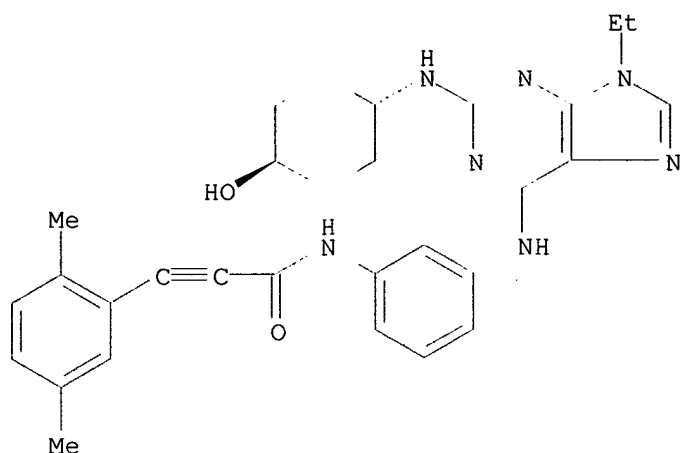
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heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 4 OF 107 REGISTRY COPYRIGHT 2002 ACS  
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 CN 2-Propynamide, 3-(2,5-dimethylphenyl)-N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



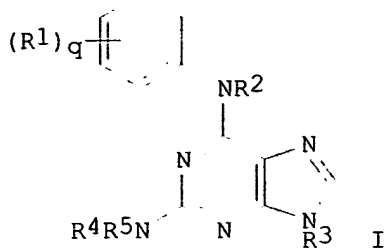
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 5 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289480-08-6 REGISTRY

CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(2-thienyl)- (9CI) (CA INDEX NAME)

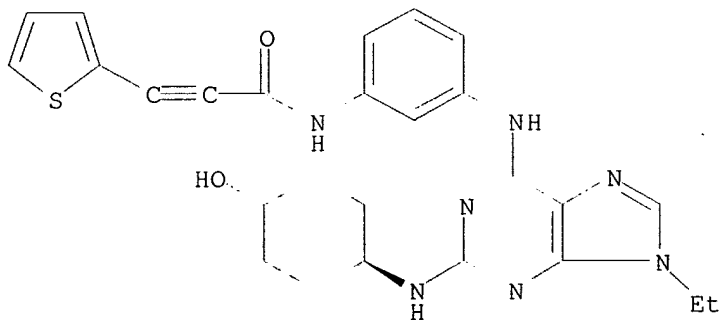
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Relative stereochemistry.



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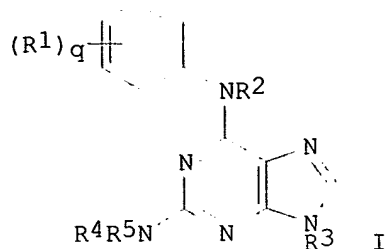
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB,

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BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 6 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289480-07-5 REGISTRY

CN 2-Propynamide, 3-(2,6-dichlorophenyl)-N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)

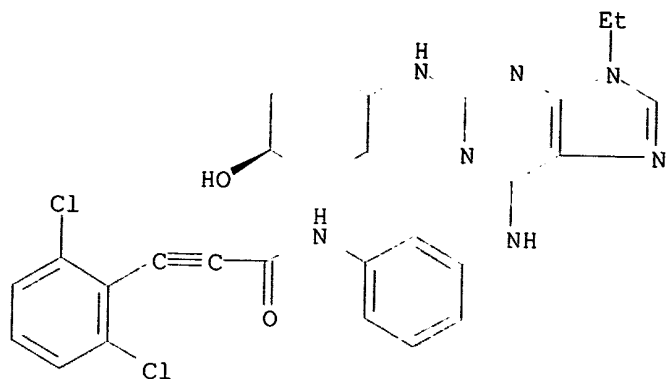
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SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

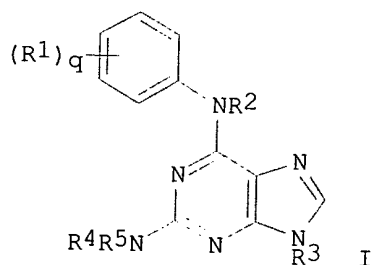


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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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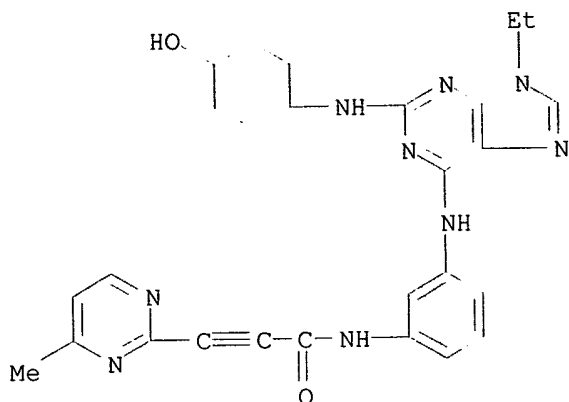


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyle, etc.; R2 = H, carbamoyle, alkylcarbamoyle; R3 = (substituted) aliphately; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphately, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphately, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme

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and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 7 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289480-06-4 REGISTRY  
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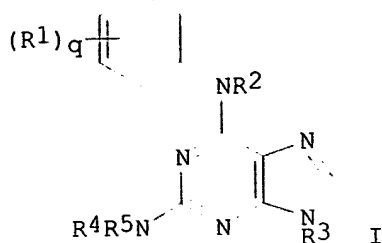


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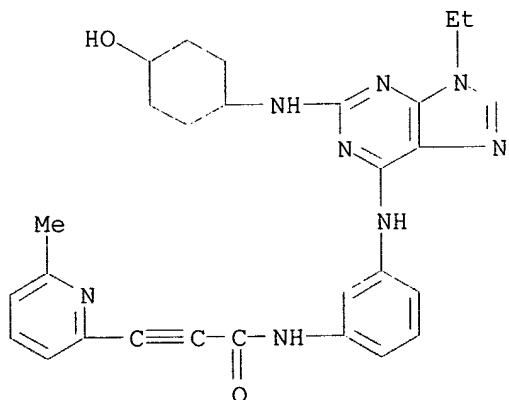
REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 8 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289480-05-3 REGISTRY  
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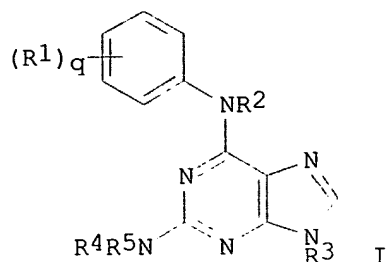
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis

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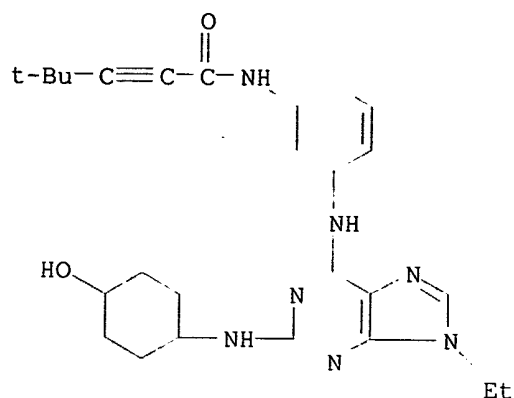
A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1  
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 AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM,  
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 SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271  
 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.;  
 R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino,  
 OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl,  
 etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene  
 optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl,  
 heterocyclyl, etc.; with provisos], were prepd. Thus,  
 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme  
 and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a  
 sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-  
 9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M  
 inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 9 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289480-04-2 REGISTRY  
 CN 2-Pentynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-  
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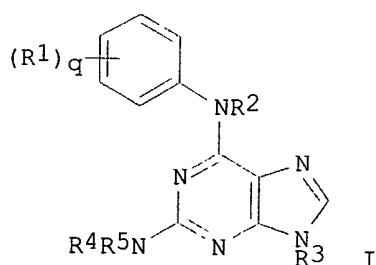


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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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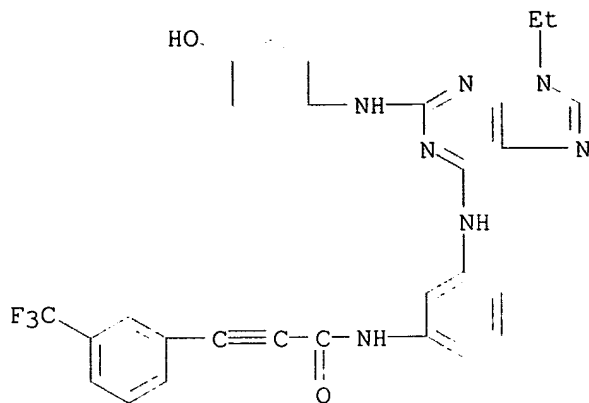
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

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9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 10 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289480-03-1 REGISTRY  
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)  
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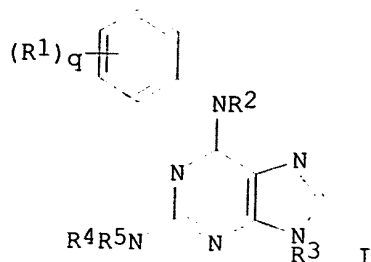


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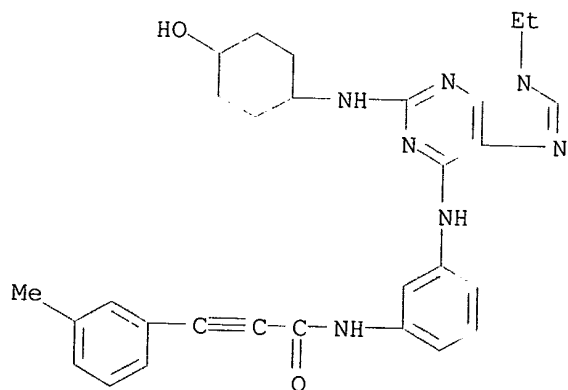
REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyle, etc.; R2 = H, carbamoyle, alkylcarbamoyle; R3 = (substituted) aliphately; R5 amino, OH, PhO, alkoyle, acyle, substituted aliphately, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphately, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 11 OF 107 REGISTRY COPYRIGHT 2002 ACS  
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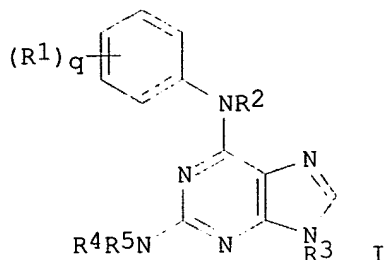
1 REFERENCES IN FILE CA (1967 TO DATE)  
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis

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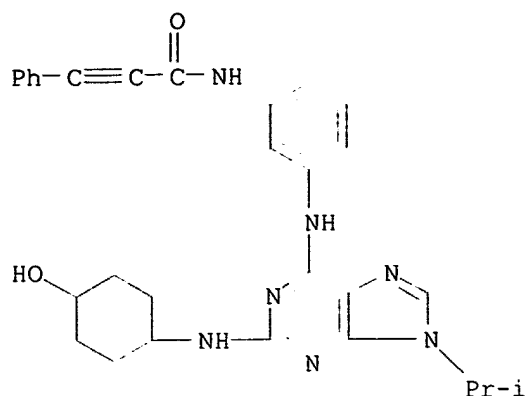
A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 12 OF 107 REGISTRY COPYRIGHT 2002 ACS  
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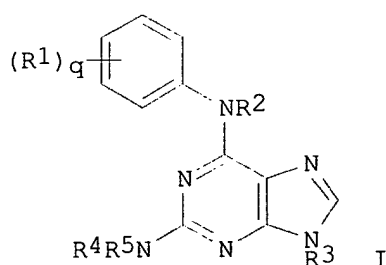


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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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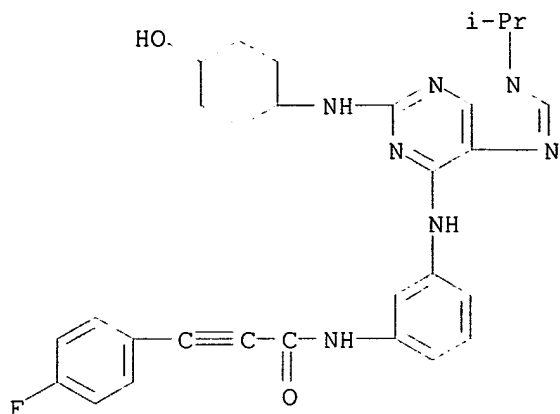


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 13 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-99-8 REGISTRY  
CN 2-Propynamide, 3-(4-fluorophenyl)-N-[3-[[2-[(4-hydroxycyclohexyl)amino]-9-(1-methylethyl)-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER



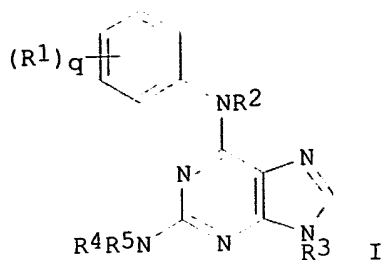
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1 REFERENCES IN FILE CA (1967 TO DATE)  
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 14 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-98-7 REGISTRY

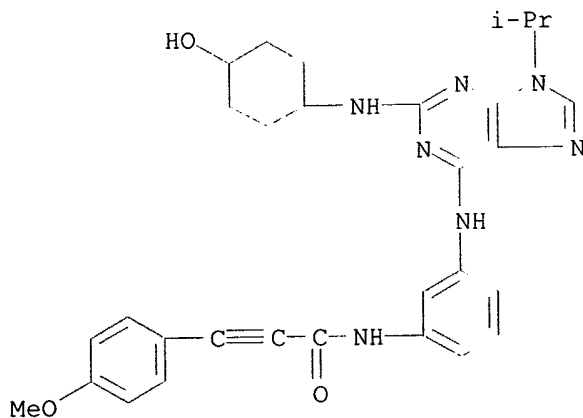
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FS 3D CONCORD

MF C30 H33 N7 O3

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER



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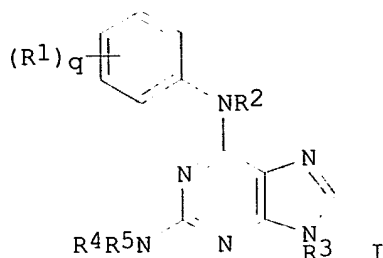
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 15 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-97-6 REGISTRY

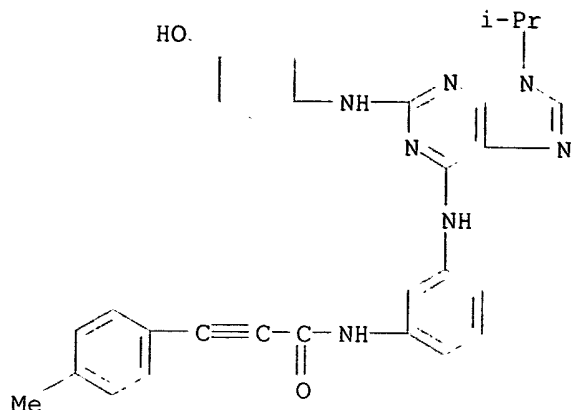
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FS 3D CONCORD

MF C30 H33 N7 O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

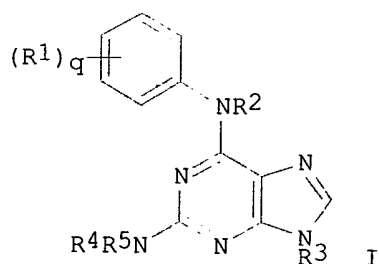


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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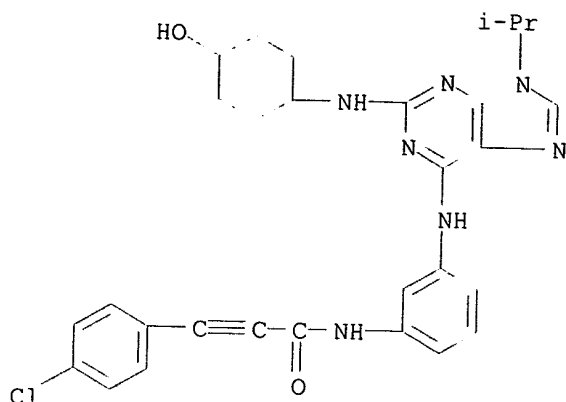
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6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 16 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-96-5 REGISTRY  
 CN 2-Propynamide, 3-(4-chlorophenyl)-N-[3-[[2-[(4-hydroxycyclohexyl)amino]-9-(1-methylethyl)-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

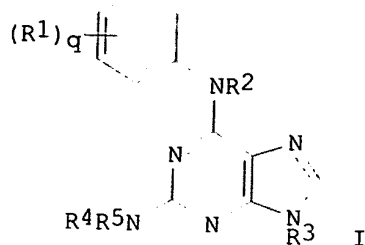


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

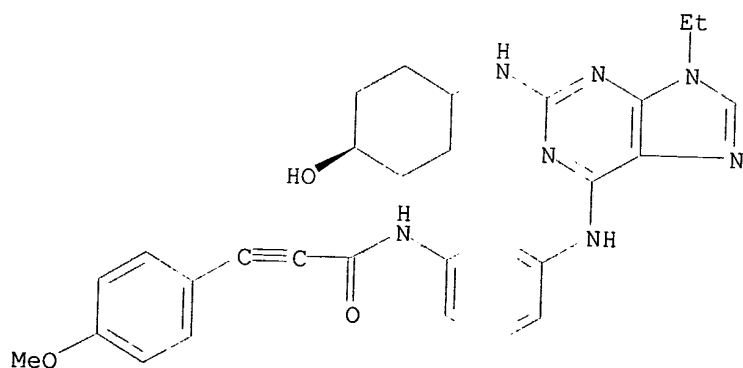
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 17 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-95-4 REGISTRY  
 CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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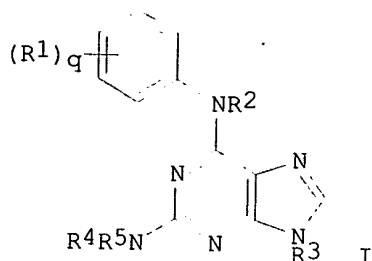
1 REFERENCES IN FILE CA (1967 TO DATE)  
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Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

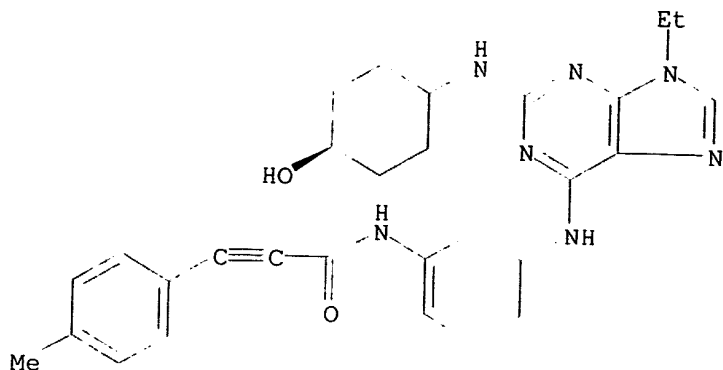
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AB Title compds. [I; q = 1-5; R<sub>1</sub> = SONR<sub>6</sub>R<sub>7</sub>, SO<sub>2</sub>NR<sub>6</sub>R<sub>7</sub>, aralkylcarbamoyl, etc.; R<sub>2</sub> = H, carbamoyl, alkylcarbamoyl; R<sub>3</sub> = (substituted) alipharyl; R<sub>5</sub> amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R<sub>4</sub> = H, R<sub>5</sub>; R<sub>4</sub>R<sub>5</sub>, R<sub>6</sub>R<sub>7</sub> = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R<sub>6</sub>, R<sub>7</sub> = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 18 OF 107 REGISTRY COPYRIGHT 2002 ACS  
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Relative stereochemistry.

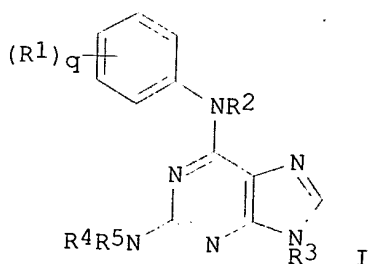


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1 REFERENCES IN FILE CA (1967 TO DATE)  
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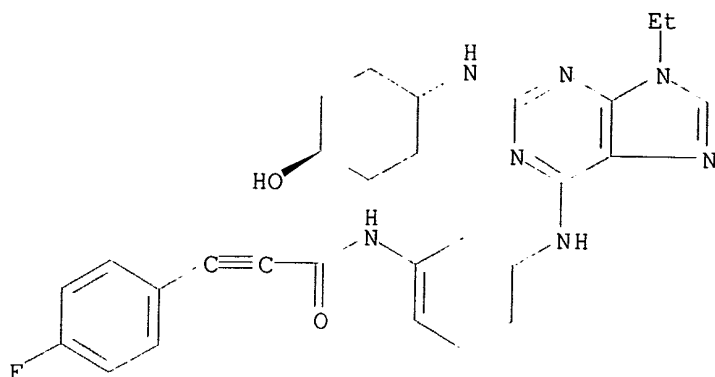
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and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 19 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-93-2 REGISTRY  
 CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)  
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Relative stereochemistry.

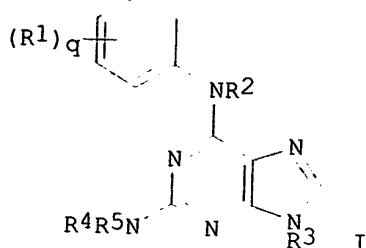


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1 REFERENCES IN FILE CA (1967 TO DATE)  
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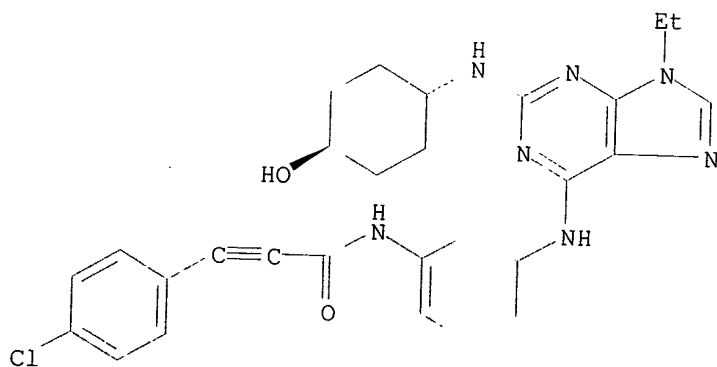
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 20 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-92-1 REGISTRY  
 CN 2-Propynamide, 3-(4-chlorophenyl)-N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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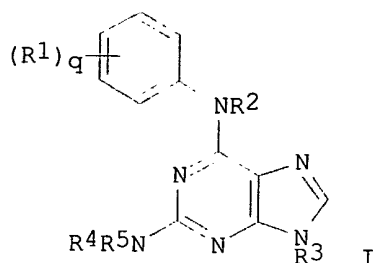
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 21 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-91-0 REGISTRY  
 CN 2-Pentynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-4,4-dimethyl- (9CI) (CA INDEX NAME)  
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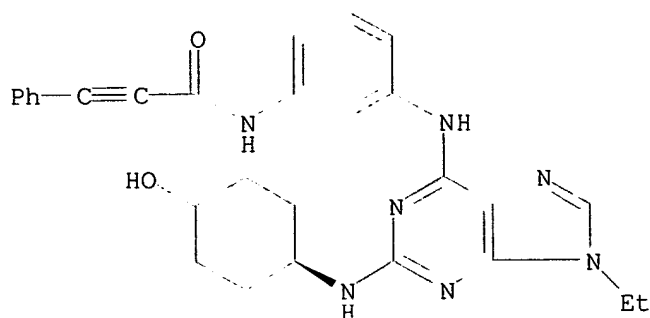
Relative stereochemistry.





L7 ANSWER 22 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-90-9 REGISTRY  
 CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-phenyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

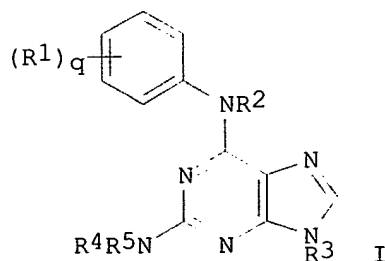


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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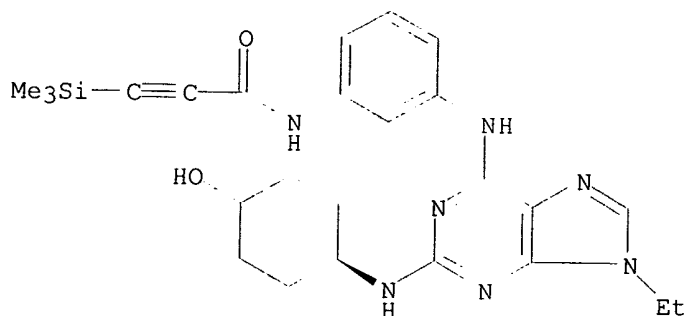


Searched by: Mary Hale 308-4258 CM-1 12D16

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 23 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-89-6 REGISTRY  
CN 2-Propynamide, N-[3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-3-(trimethylsilyl)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C25 H33 N7 O2 Si  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



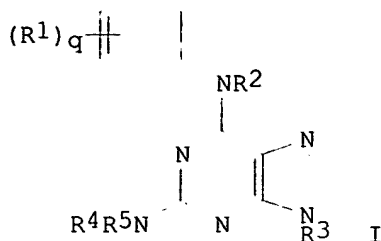
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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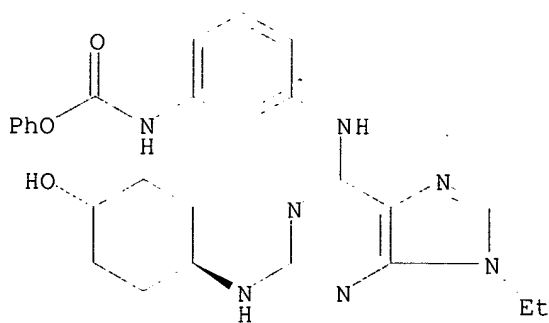
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 24 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-88-5 REGISTRY  
 CN Carbamic acid, [3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, phenyl ester (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

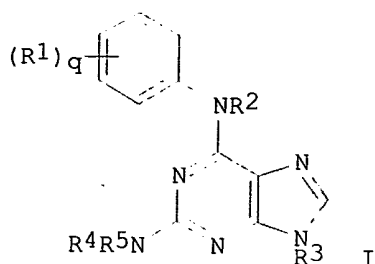
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1

Searched by: Mary Hale 308-4258 CM-1 12D16

20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

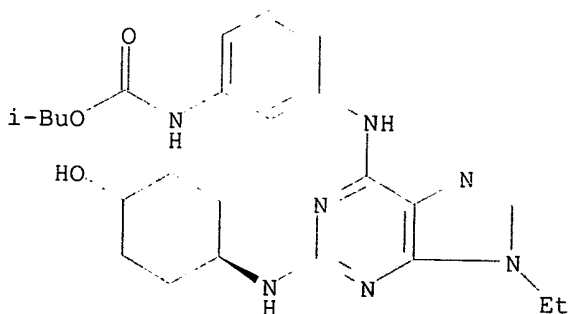
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 25 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-87-4 REGISTRY  
 CN Carbamic acid, [3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



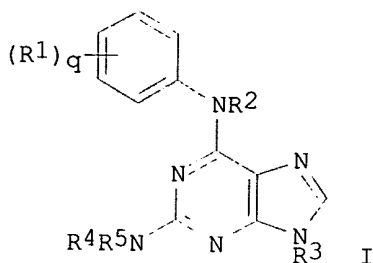
Searched by: Mary Hale 308-4258 CM-1 12D16

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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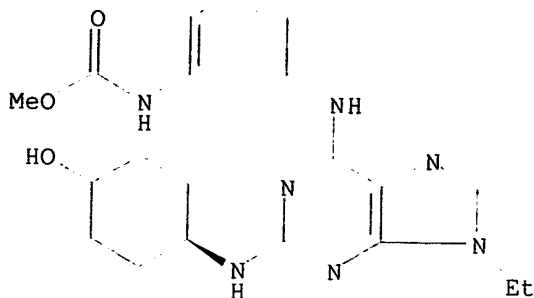


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 26 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-86-3 REGISTRY  
CN Carbamic acid, [3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C21 H27 N7 O3  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

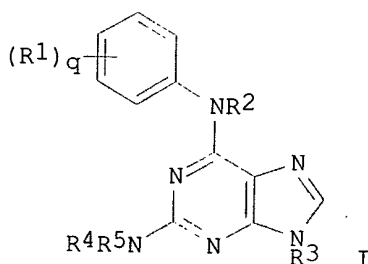


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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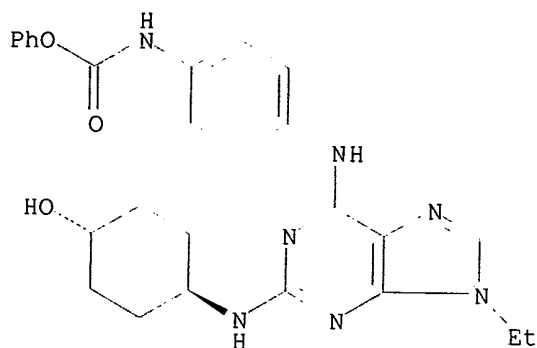


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphetyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphetyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphetyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

Searched by: Mary Hale 308-4258 CM-1 12D16

L7 ANSWER 27 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-85-2 REGISTRY  
 CN Carbamic acid, [4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, phenyl ester (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C26 H29 N7 O3  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

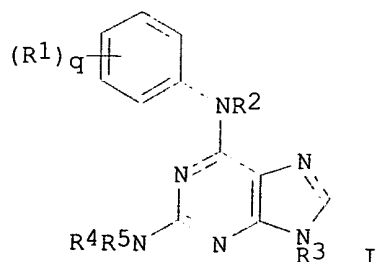


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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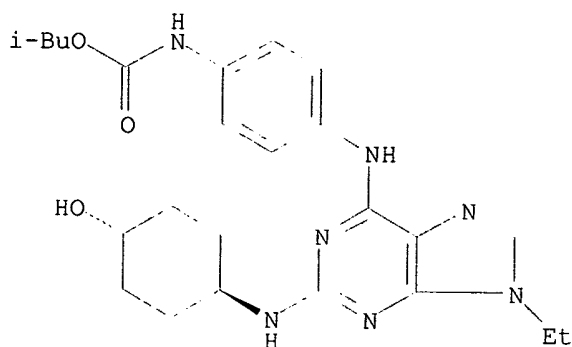


Searched by: Mary Hale 308-4258 CM-1 12D16

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 28 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-83-0 REGISTRY  
CN Carbamic acid, [4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H33 N7 O3  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

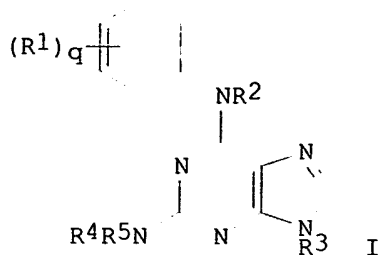
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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Searched by: Mary Hale 308-4258 CM-1 12D16

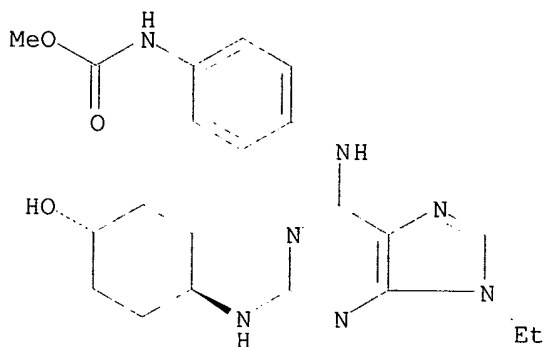




AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 29 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-82-9 REGISTRY  
 CN Carbamic acid, [4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C21 H27 N7 O3  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

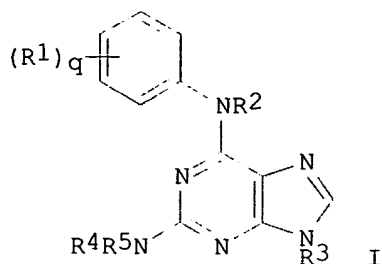
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1

Searched by: Mary Hale 308-4258 CM-1 12D16

20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

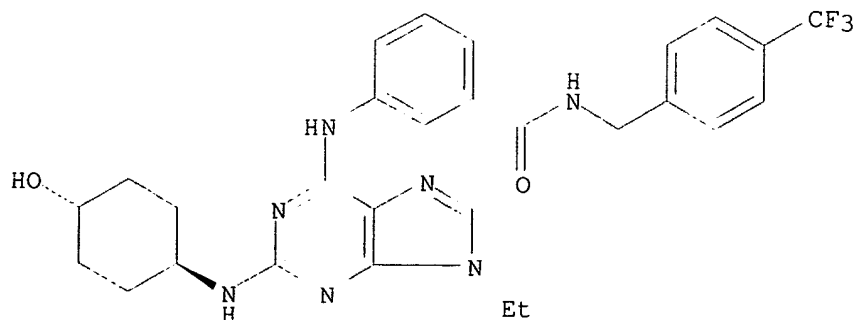
GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 30 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-73-8 REGISTRY  
 CN Benzamide, 3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C28 H30 F3 N7 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



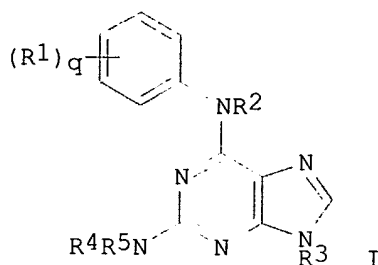
Searched by: Mary Hale 308-4258 CM-1 12D16

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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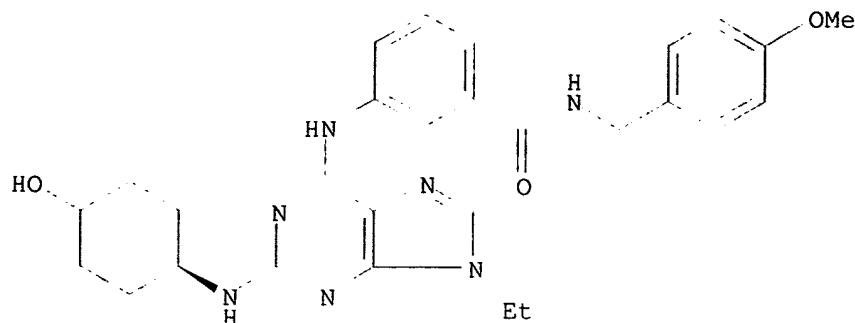


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 31 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-72-7 REGISTRY  
CN Benzamide, 3-[[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C28 H33 N7 O3  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

Searched by: Mary Hale 308-4258 CM-1 12D16

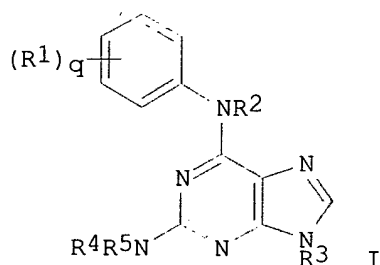


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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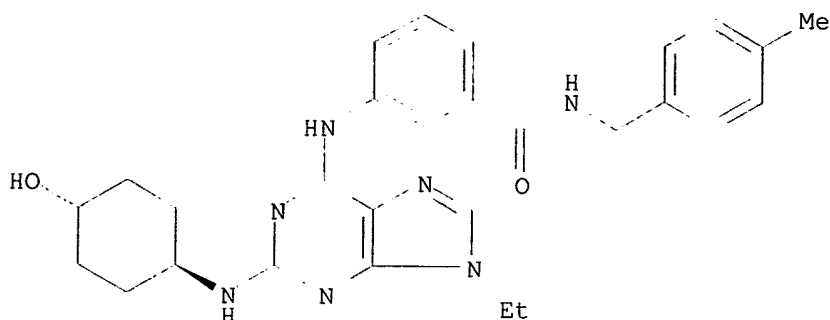


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

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L7 ANSWER 32 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-71-6 REGISTRY  
 CN Benzamide, 3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[(4-methylphenyl)methyl]- (9CI) (CA INDEX NAME)  
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 MF C28 H33 N7 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

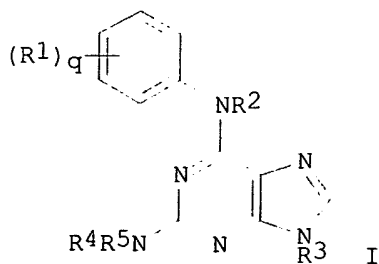


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE) .

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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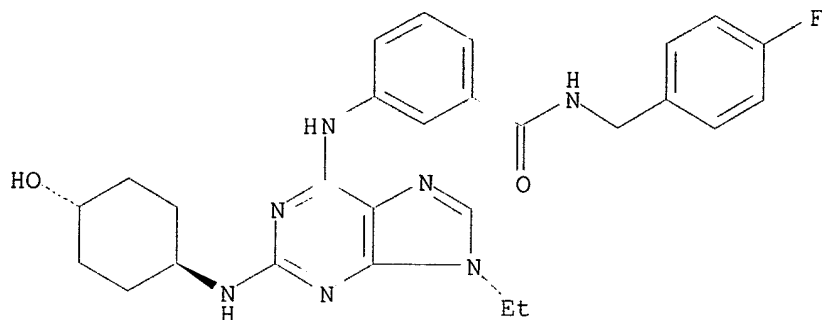


Searched by: Mary Hale 308-4258 CM-1 12D16

AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 33 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-70-5 REGISTRY  
CN Benzamide, 3-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[(4-fluorophenyl)methyl]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

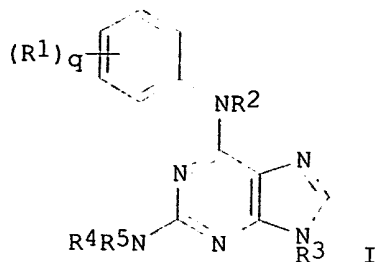


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

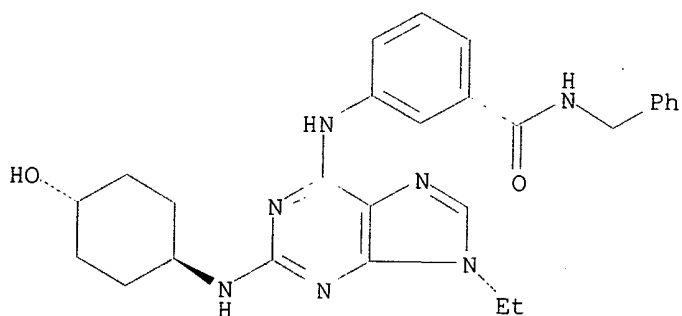
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 34 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-69-2 REGISTRY  
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 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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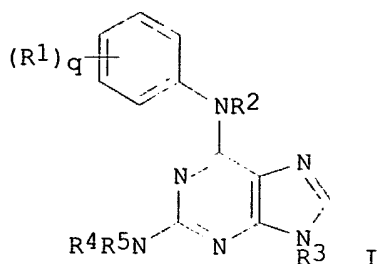
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1

Searched by: Mary Hale 308-4258 CM-1 12D16

20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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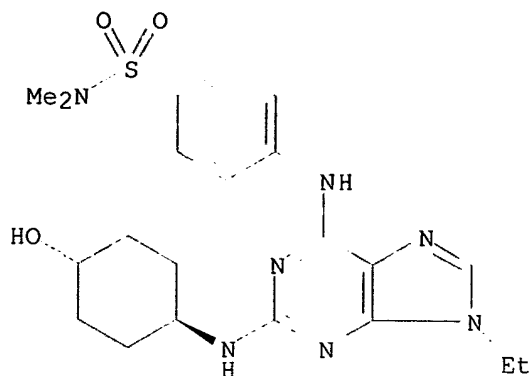


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 35 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-68-1 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N,N-dimethyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C21 H29 N7 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



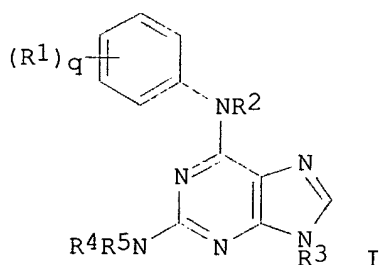


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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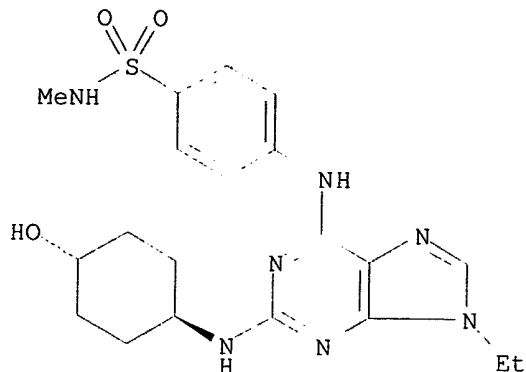


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 36 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-67-0 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

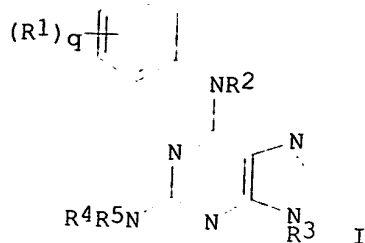


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

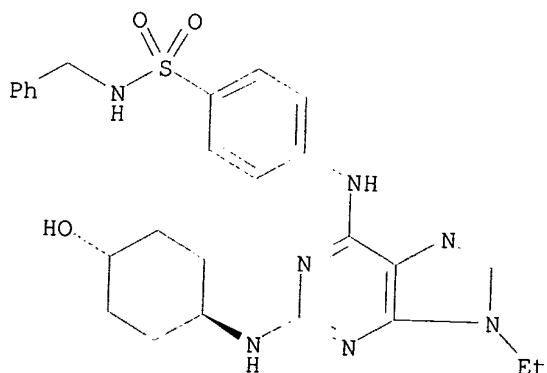
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 37 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-66-9 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

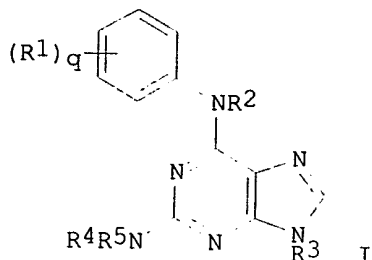
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

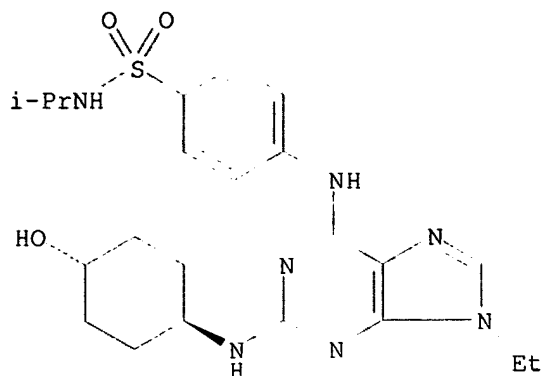
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 38 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-65-8 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(1-methylethyl)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H31 N7 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

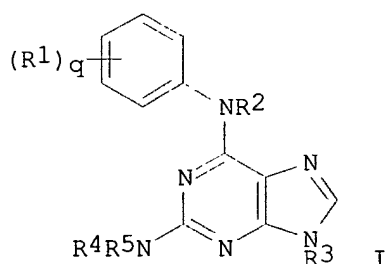


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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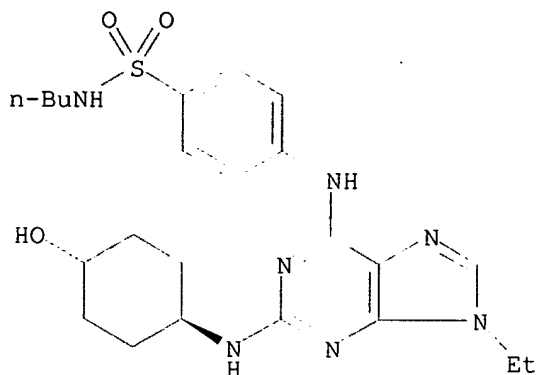
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9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 39 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-64-7 REGISTRY  
CN Benzenesulfonamide, N-butyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)  
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MF C23 H33 N7 O3 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

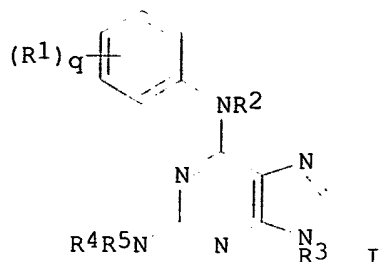


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

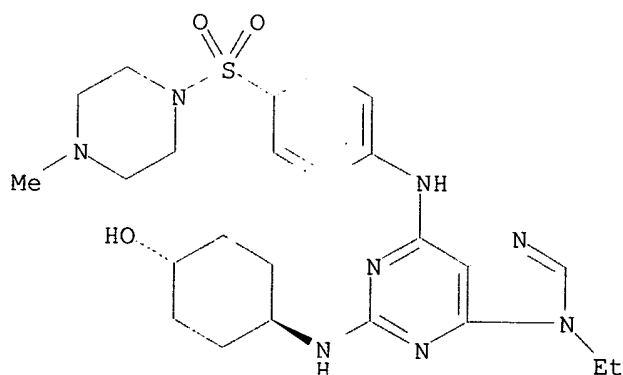
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 40 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-63-6 REGISTRY  
 CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

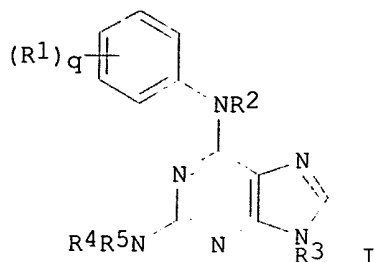
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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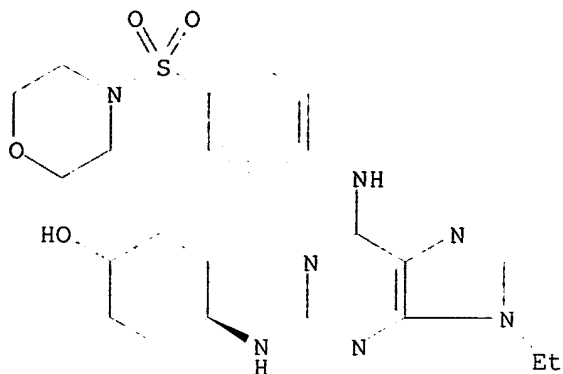


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 41 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-62-5 REGISTRY  
 CN Morpholine, 4-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)  
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 MF C23 H31 N7 O4 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



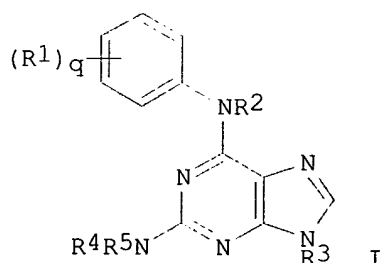


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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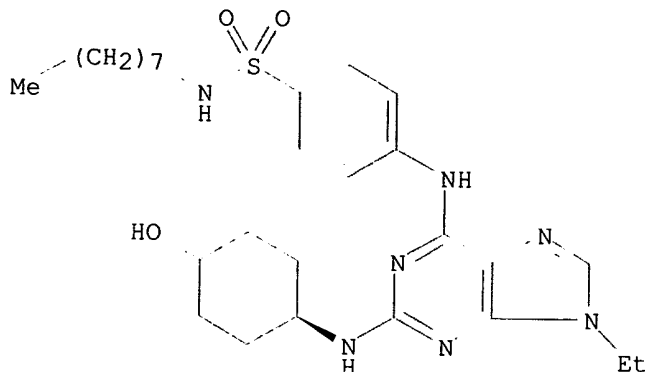


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 42 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-61-4 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-octyl- (9CI) (CA INDEX NAME)  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

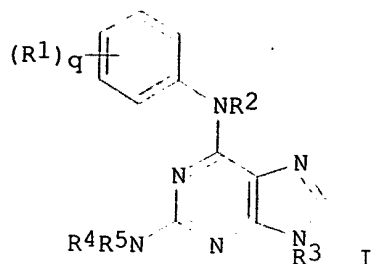


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

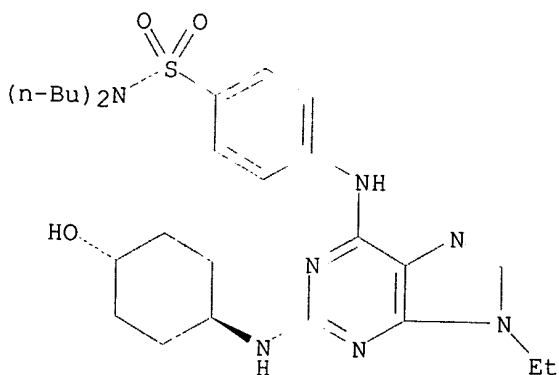
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 43 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-60-3 REGISTRY  
 CN Benzenesulfonamide, N,N-dibutyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C27 H41 N7 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

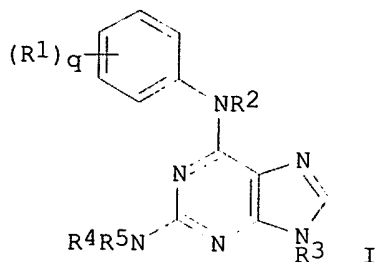
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

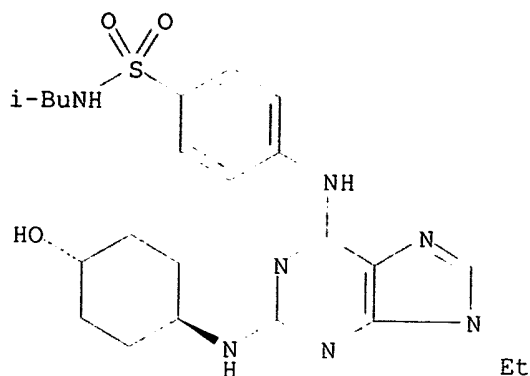
GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyle, etc.; R2 = H, carbamoyle, alkylcarbamoyle; R3 = (substituted) aliphately; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphately, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphately, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 44 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-59-0 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

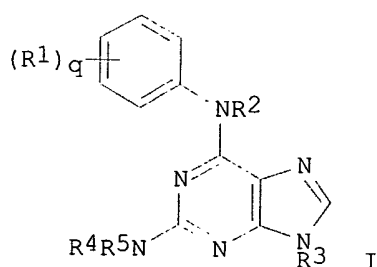


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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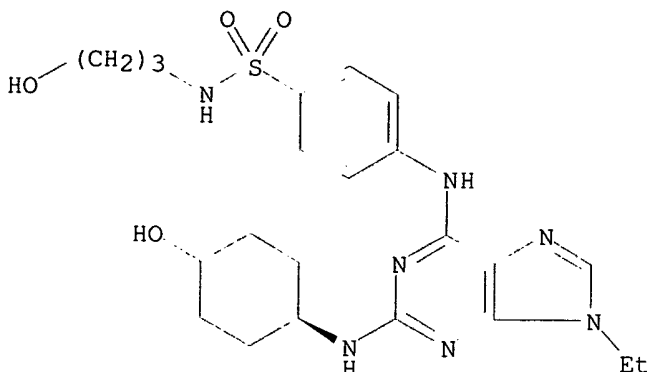
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9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 45 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-58-9 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

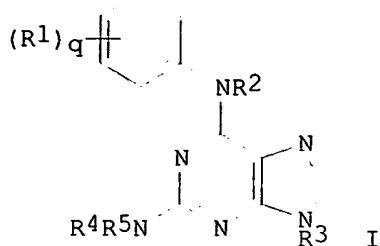


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

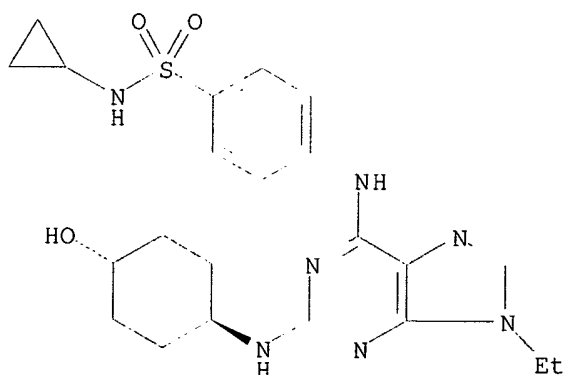
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyle, etc.; R2 = H, carbamoyle, alkylcarbamoyle; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 46 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-57-8 REGISTRY  
 CN Benzenesulfonamide, N-cyclopropyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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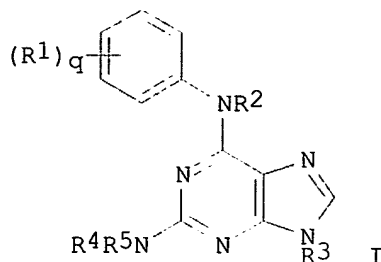
1 REFERENCES IN FILE CA (1967 TO DATE)  
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 47 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-56-7 REGISTRY

CN Benzenesulfonamide, N-cyclohexyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

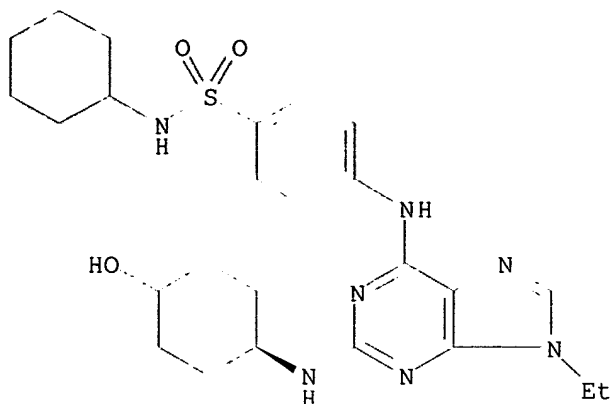
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SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



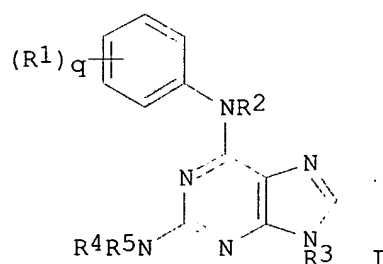


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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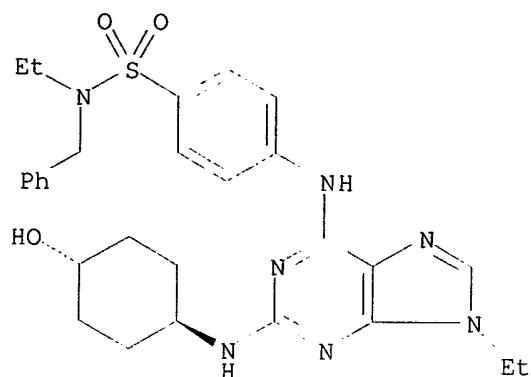
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

Searched by: Mary Hale 308-4258 CM-1 12D16

6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 48 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-55-6 REGISTRY  
 CN Benzenesulfonamide, N-ethyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

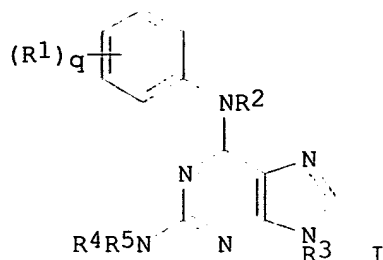


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1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

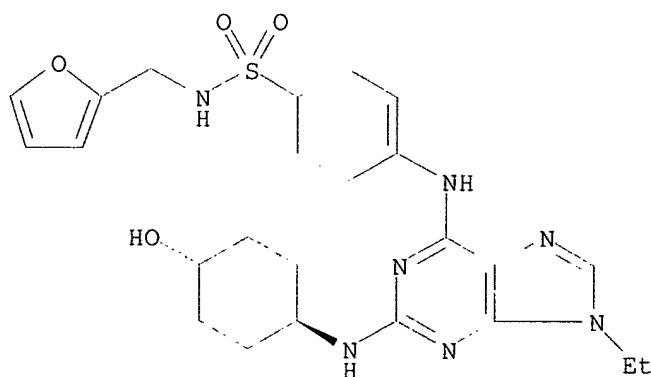
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 49 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-54-5 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(2-furanylmethyl)- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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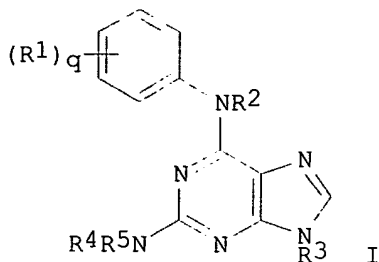
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Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

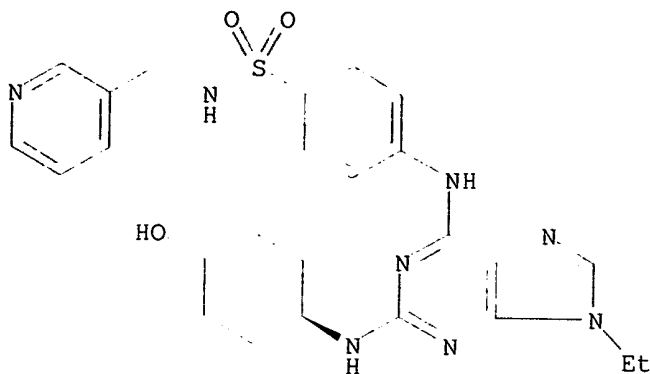
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 50 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-53-4 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

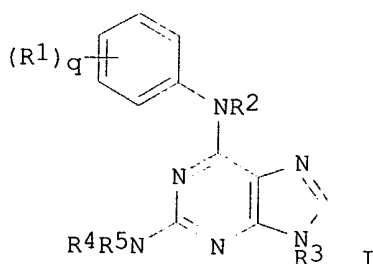


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



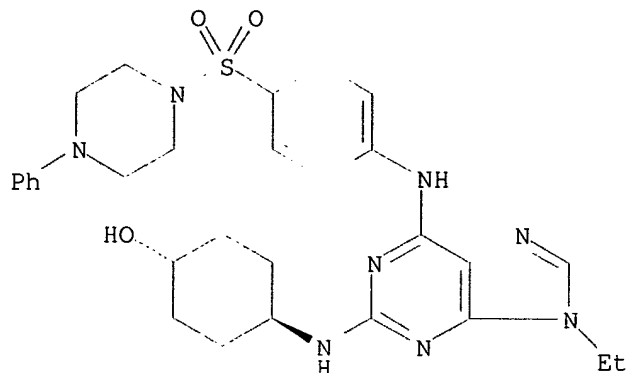
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyle, etc.; R2 = H, carbamoyle, alkylcarbamoyle; R3 = (substituted) aliphately; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphately, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphately, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 51 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-52-3 REGISTRY  
CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-phenyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C29 H36 N8 O3 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

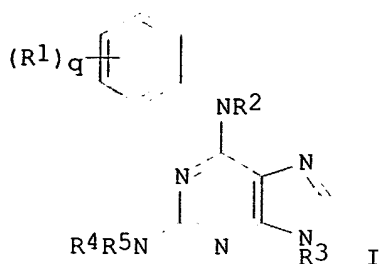


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

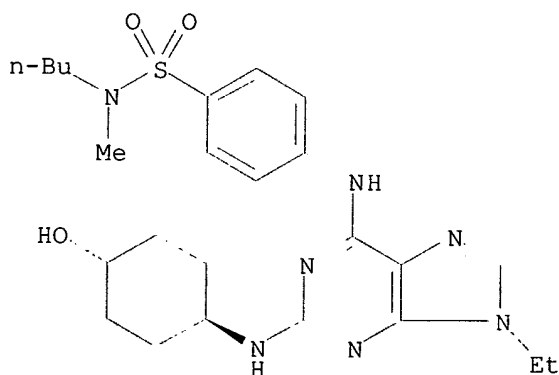
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 52 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-51-2 REGISTRY  
 CN Benzenesulfonamide, N-butyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C24 H35 N7 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

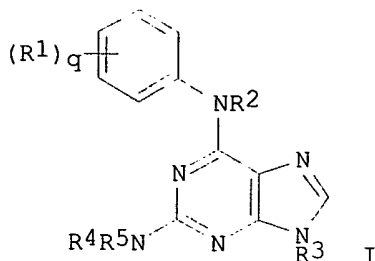
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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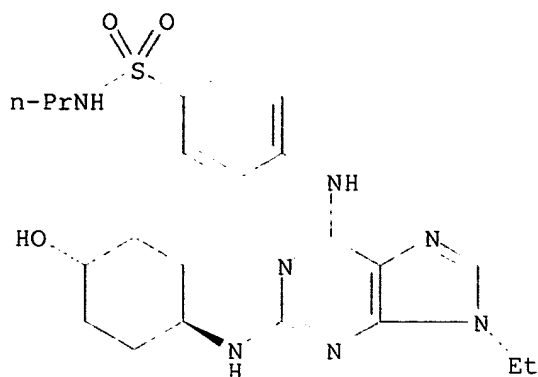


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 53 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-50-1 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-propyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C22 H31 N7 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



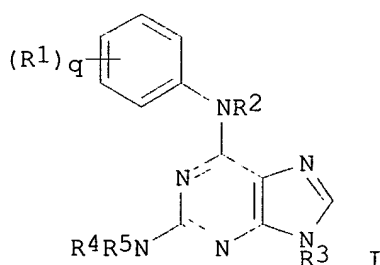


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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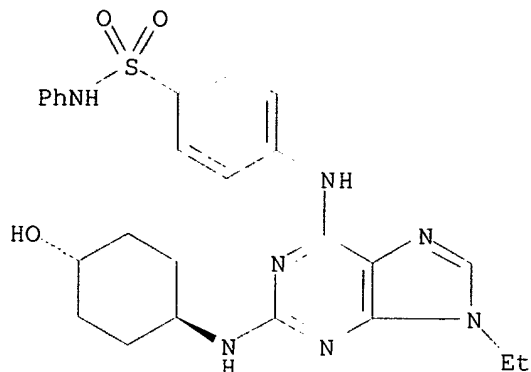
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 54 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-49-8 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-phenyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C25 H29 N7 O3 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



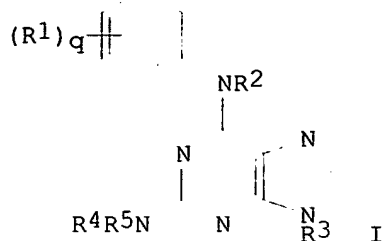
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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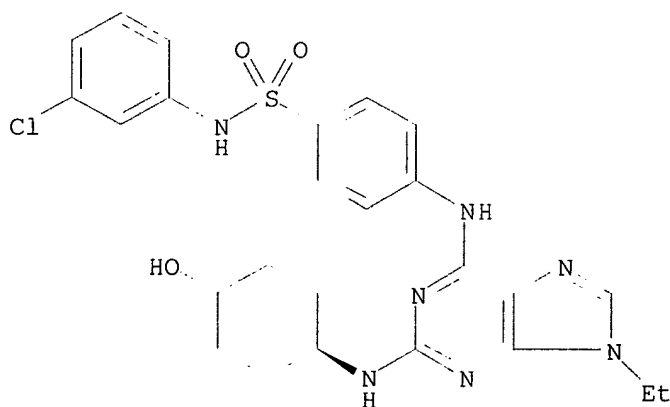
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 55 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-48-7 REGISTRY  
 CN Benzenesulfonamide, N-(3-chlorophenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C25 H28 Cl N7 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

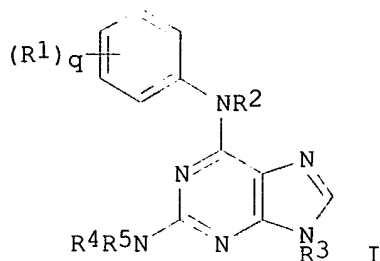
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

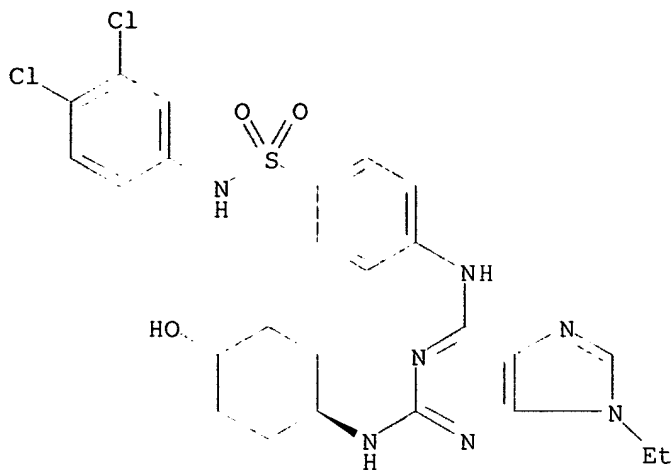
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 56 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-47-6 REGISTRY  
 CN Benzenesulfonamide, N-(3,4-dichlorophenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C25 H27 Cl2 N7 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

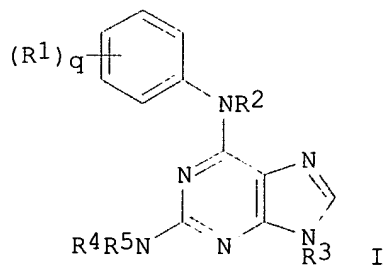


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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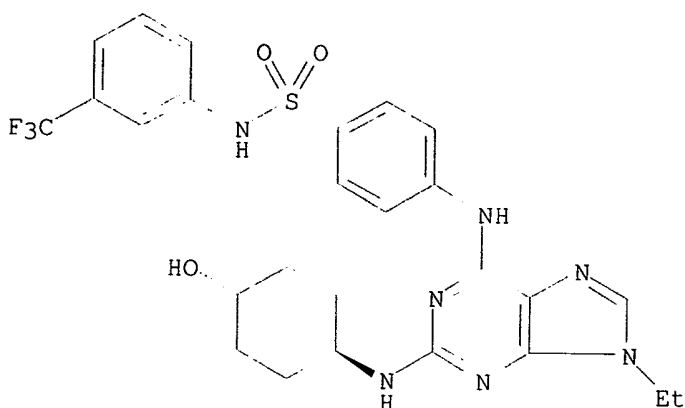
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene

Searched by: Mary Hale 308-4258 CM-1 12D16

optionally interrupted by O, S, N; R6, R7 = H, aliphatic, carbocyclic, heterocyclic, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 57 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-46-5 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C26 H28 F3 N7 O3 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



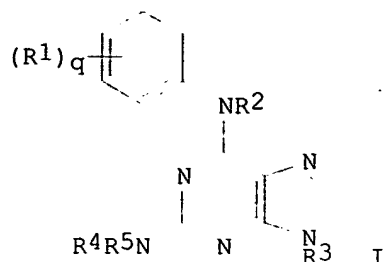
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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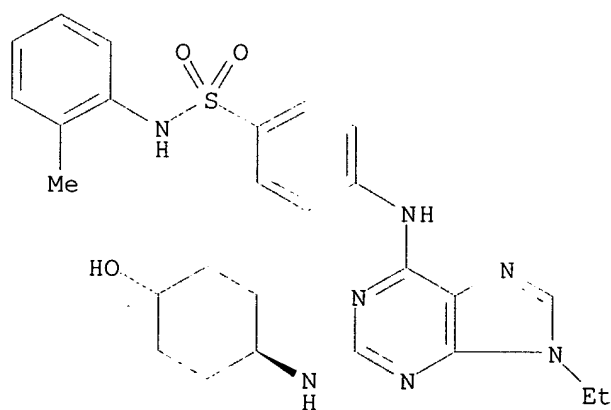
Berch  
927322  
PT 2/2



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 58 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-45-4 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

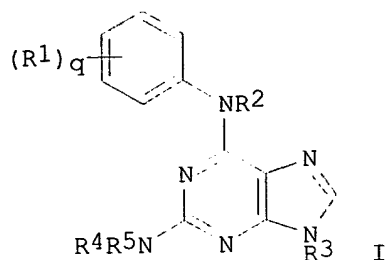
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;  
 Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis  
 A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1  
 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB,  
 BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
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 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM,  
 CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT,  
 SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271  
 20000216. PRIORITY: GB 1999-3762 19990218.

GI

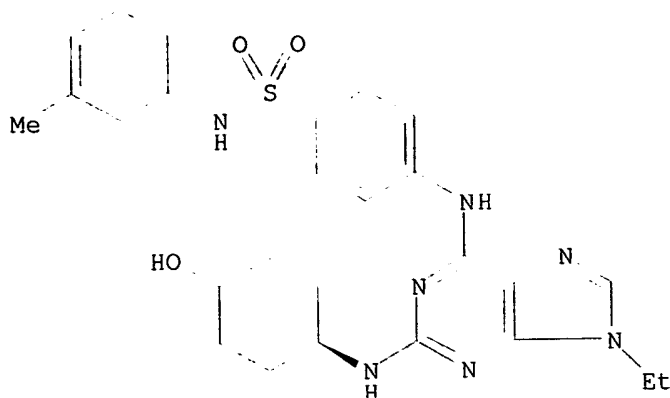


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.;  
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 OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl,  
 etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene  
 optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl,  
 heterocyclyl, etc.; with provisos], were prepd. Thus,  
 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme  
 and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a  
 sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-  
 9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M  
 inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 59 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-44-3 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



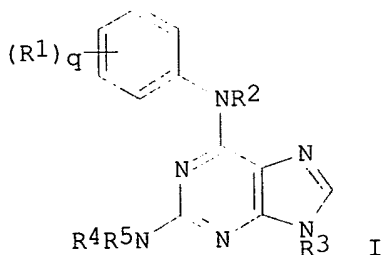


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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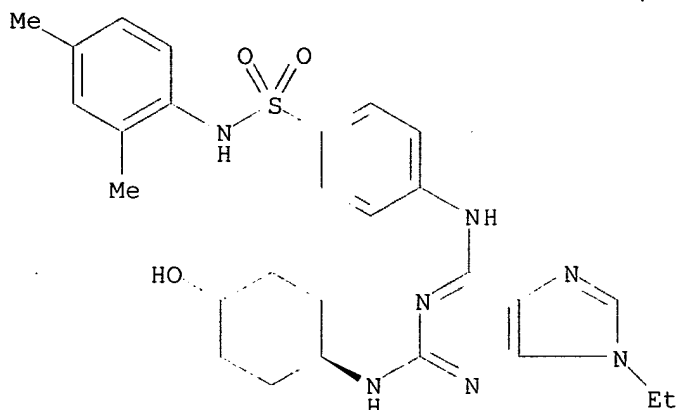
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

Searched by: Mary Hale 308-4258 CM-1 12D16

6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 60 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-43-2 REGISTRY  
 CN Benzenesulfonamide, N-(2,4-dimethylphenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



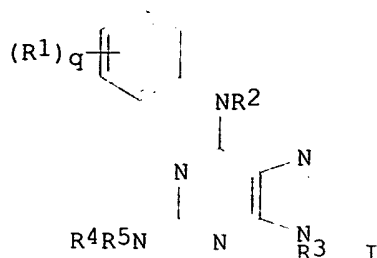
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1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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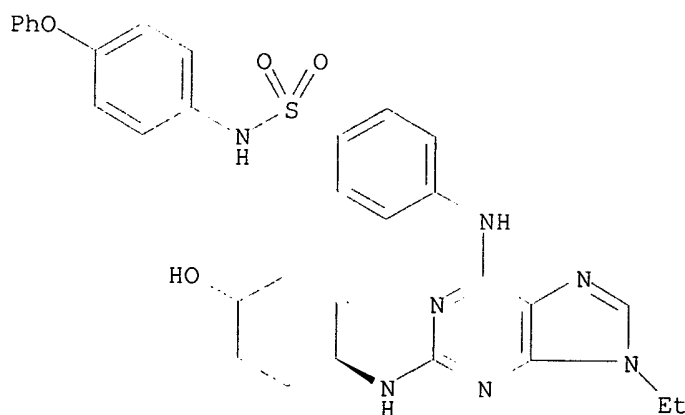
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 61 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-42-1 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
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Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

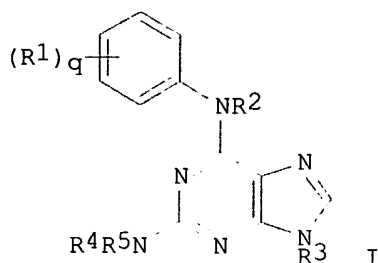
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase

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pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

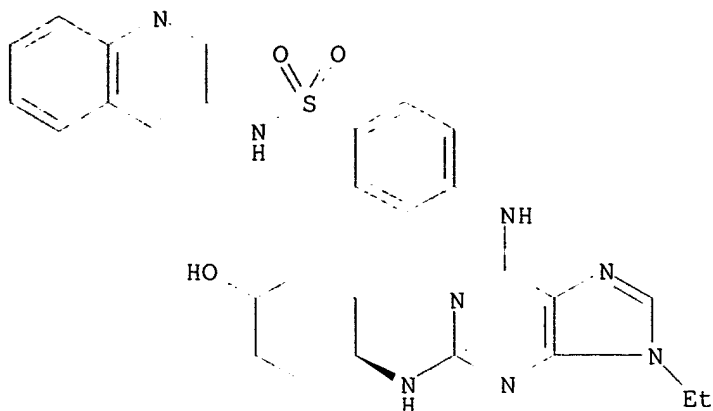
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 62 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-41-0 REGISTRY  
 CN Benzenesulfonamide, 4-[[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-3-quinolinyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

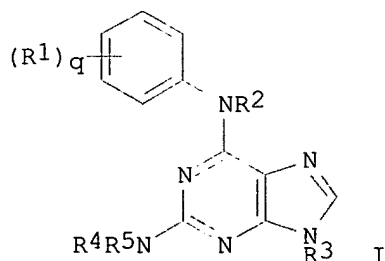


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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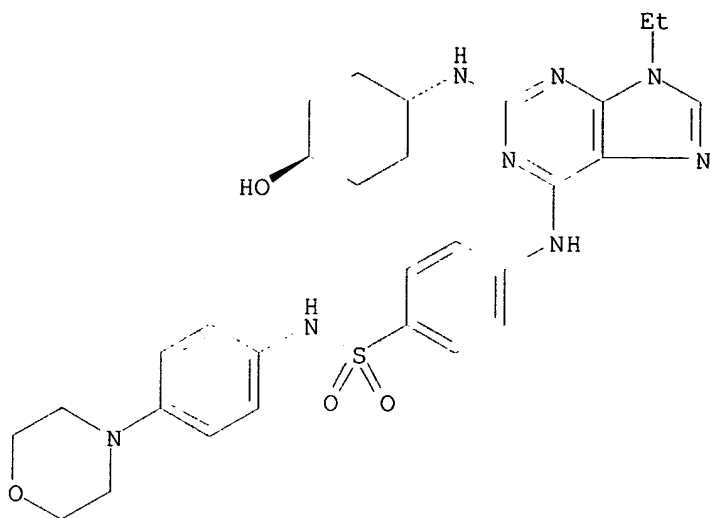
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

Searched by: Mary Hale 308-4258 CM-1 12D16

6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 63 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-40-9 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



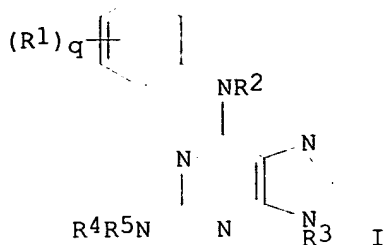
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI

Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 64 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-39-6 REGISTRY

CN Benzoic acid, 4-[[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]amino]-, propyl ester (9CI) (CA INDEX NAME)

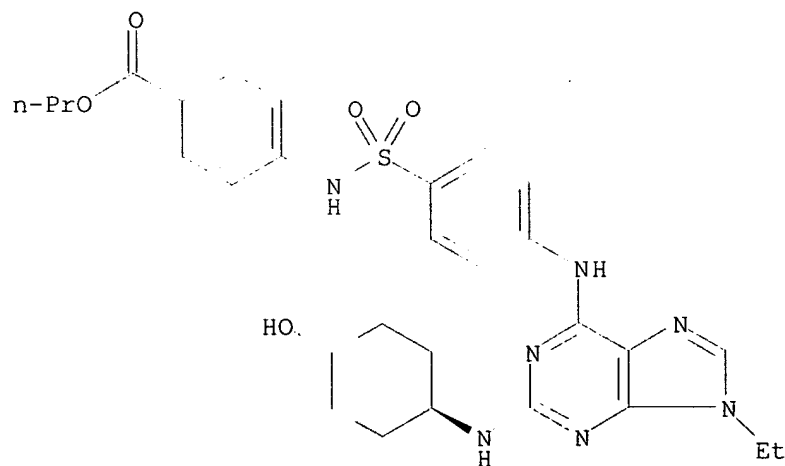
FS STEREOSEARCH

MF C29 H35 N7 O5 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

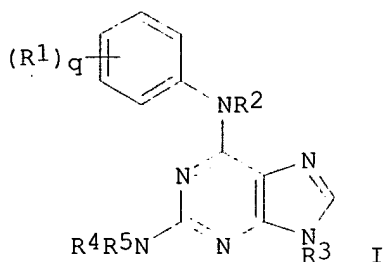
1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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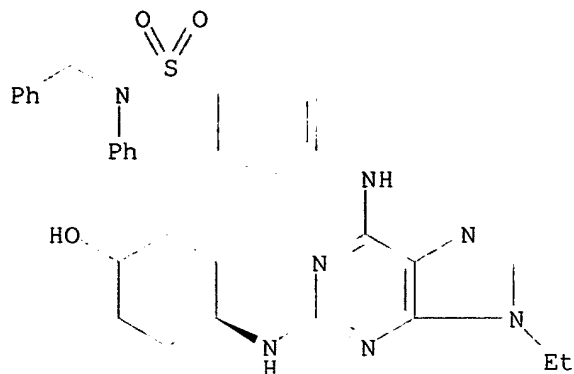


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 65 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-38-5 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-phenyl-N-(phenylmethyl)- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



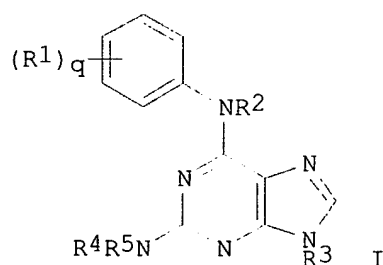


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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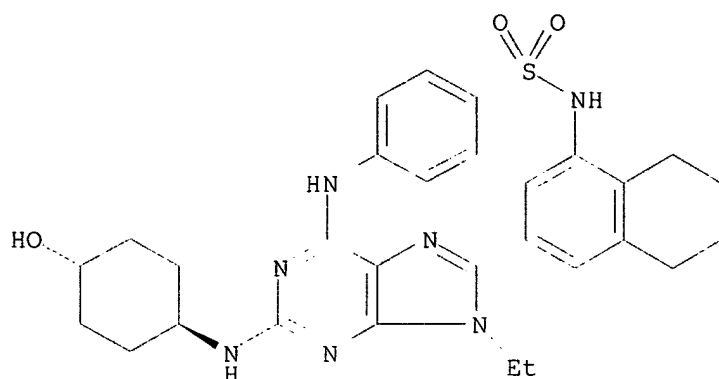
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 66 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-37-4 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(5,6,7,8-tetrahydro-1-naphthalenyl)- (9CI) (CA INDEX NAME)  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



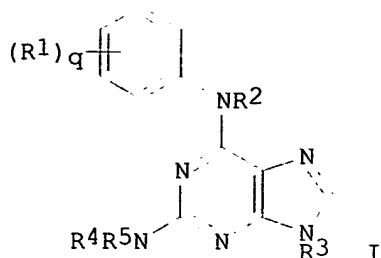
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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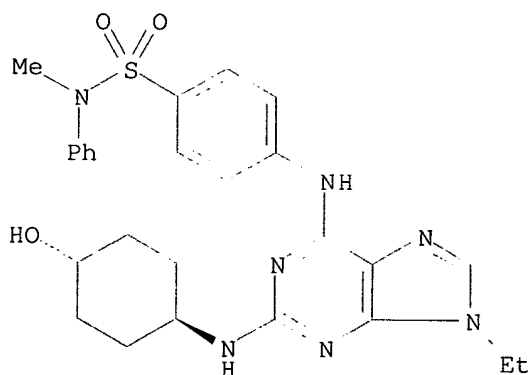
Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 67 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-36-3 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)  
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Relative stereochemistry.



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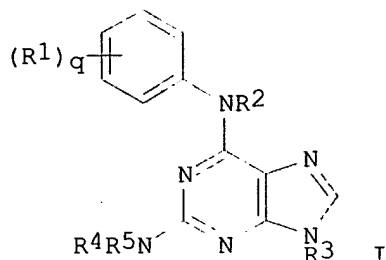
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

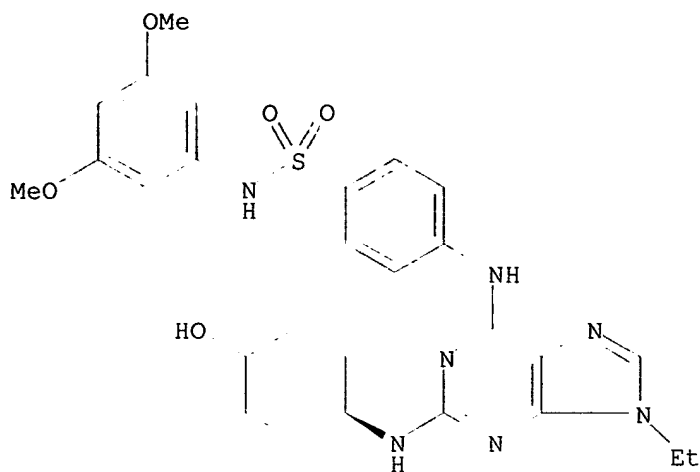
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 68 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-35-2 REGISTRY  
 CN Benzenesulfonamide, N-(3,5-dimethoxyphenyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)  
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Relative stereochemistry.

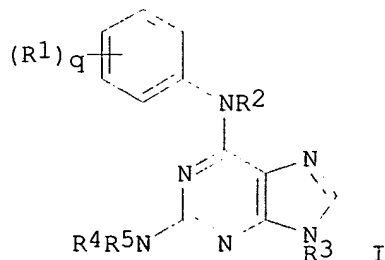


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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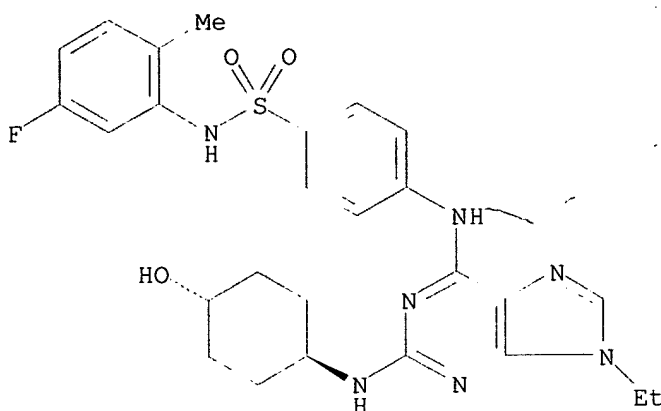
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene

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optionally interrupted by O, S, N; R6, R7 = H, aliphatic, carbocyclic, heterocyclic, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 69 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-34-1 REGISTRY  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

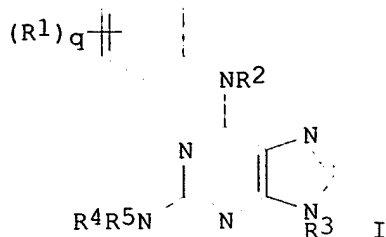


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1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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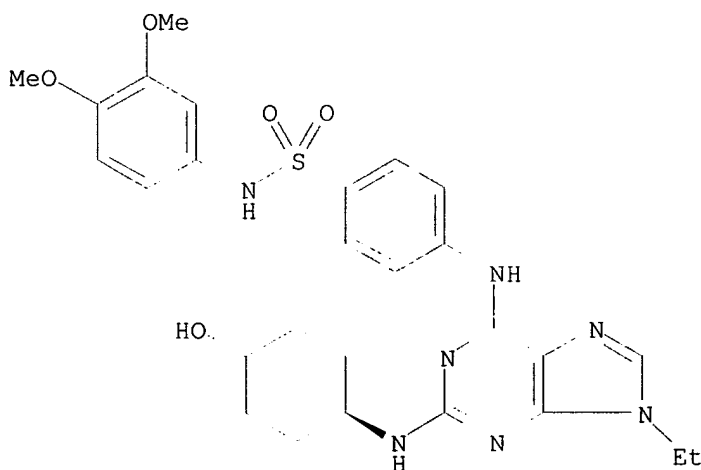
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 70 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-33-0 REGISTRY  
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 FS STEREOSEARCH  
 MF C27 H33 N7 O5 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



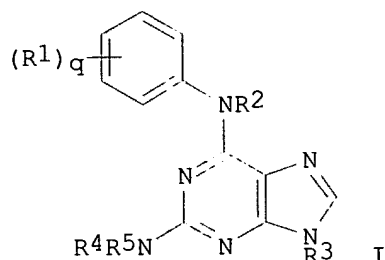
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Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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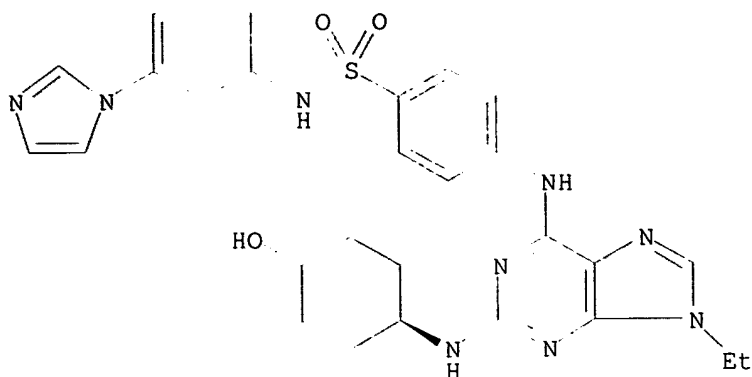


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatic; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatic, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatic, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 71 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-32-9 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[3-(1H-imidazol-1-yl)phenyl]- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



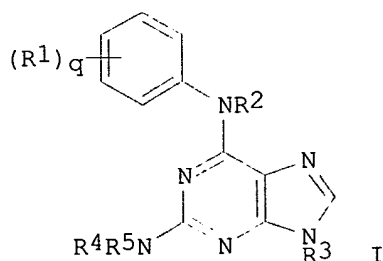


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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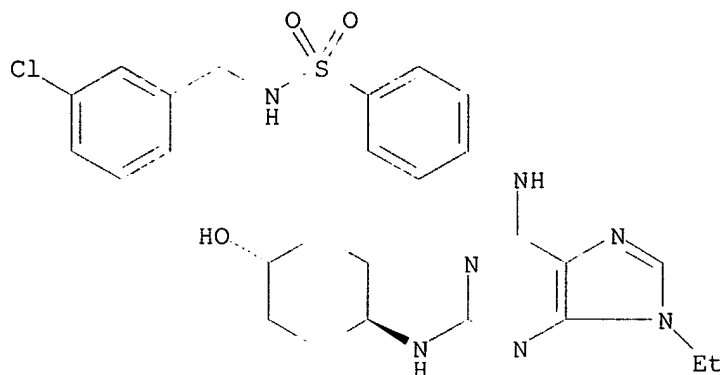
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Searched by: Mary Hale 308-4258 CM-1 12D16

6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 72 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-31-8 REGISTRY  
 CN Benzenesulfonamide, N-[(3-chlorophenyl)methyl]-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

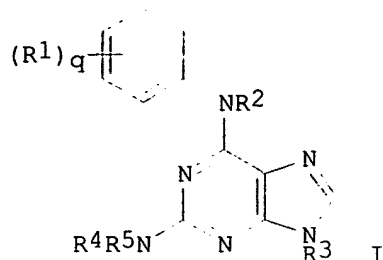


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

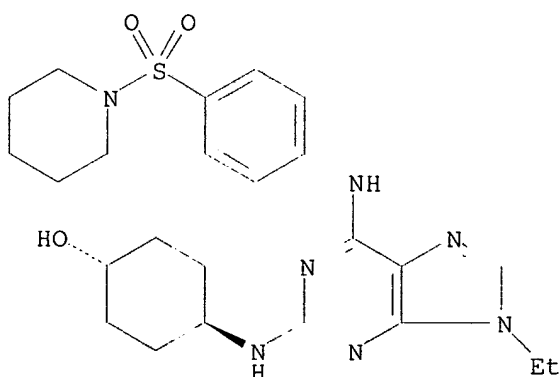
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 73 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-30-7 REGISTRY  
 CN Piperidine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

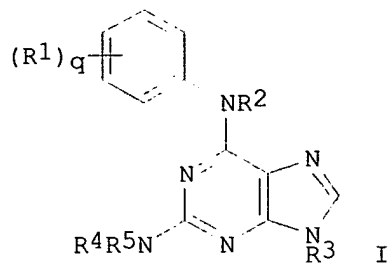
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

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Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

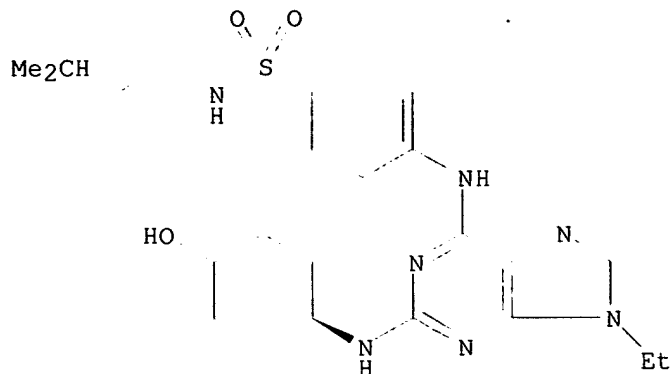
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AB Title compds. [I; q = 1-5; R<sup>1</sup> = SONR<sup>6</sup>R<sup>7</sup>, SO<sub>2</sub>NR<sup>6</sup>R<sup>7</sup>, aralkylcarbamoyl, etc.; R<sup>2</sup> = H, carbamoyl, alkylcarbamoyl; R<sup>3</sup> = (substituted) alipharyl; R<sup>5</sup> amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R<sup>4</sup> = H, R<sup>5</sup>; R<sup>4</sup>R<sup>5</sup>, R<sup>6</sup>R<sup>7</sup> = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R<sup>6</sup>, R<sup>7</sup> = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 74 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-29-4 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(3-methylbutyl)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

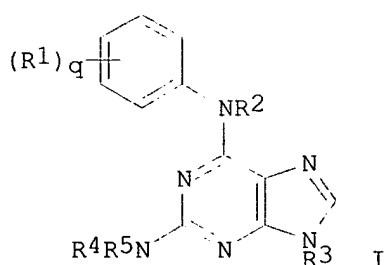


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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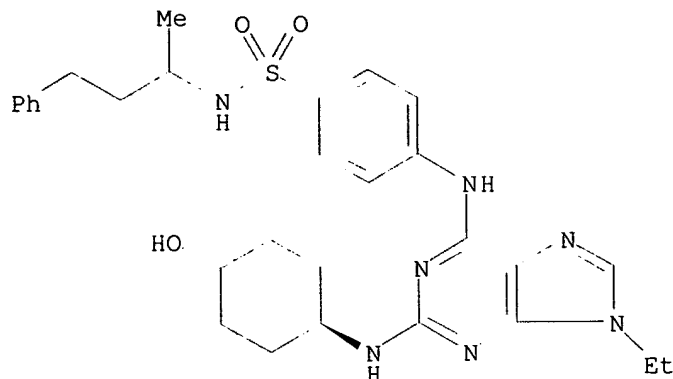
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 75 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-28-3 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(1-methyl-3-phenylpropyl)- (9CI) (CA INDEX NAME)  
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Relative stereochemistry.

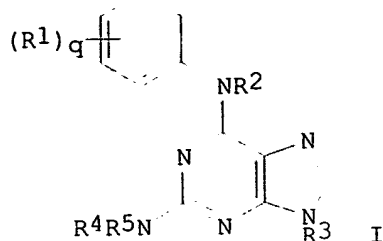


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 76 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-27-2 REGISTRY

CN Benzenesulfonamide, N-(3,3-diphenylpropyl)-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]- (9CI) (CA INDEX NAME)

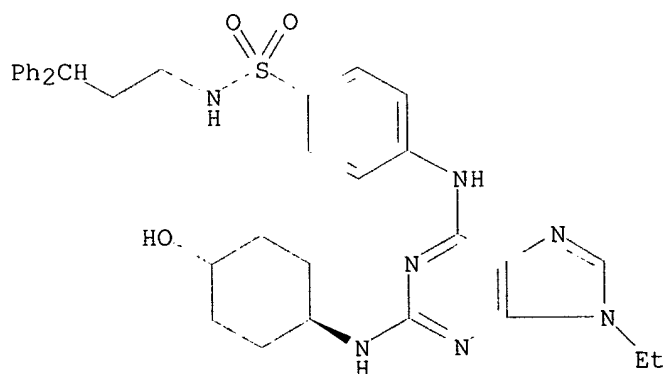
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MF C34 H39 N7 O3 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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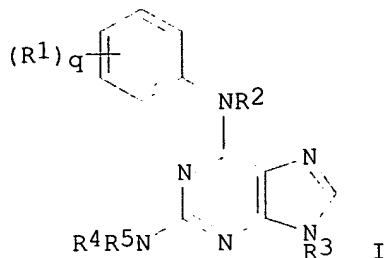
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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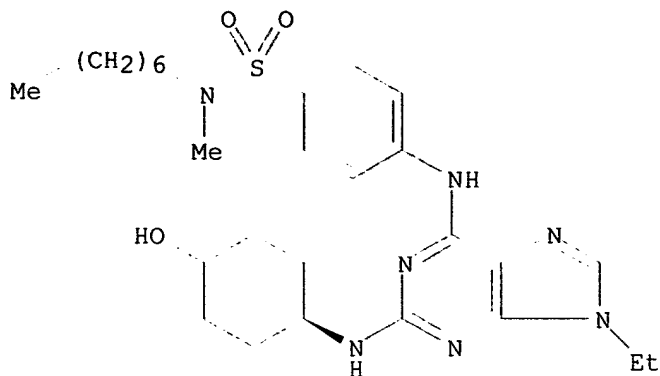


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 77 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-26-1 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-heptyl-N-methyl- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



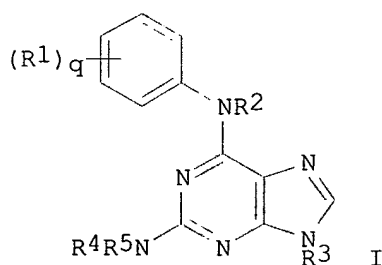


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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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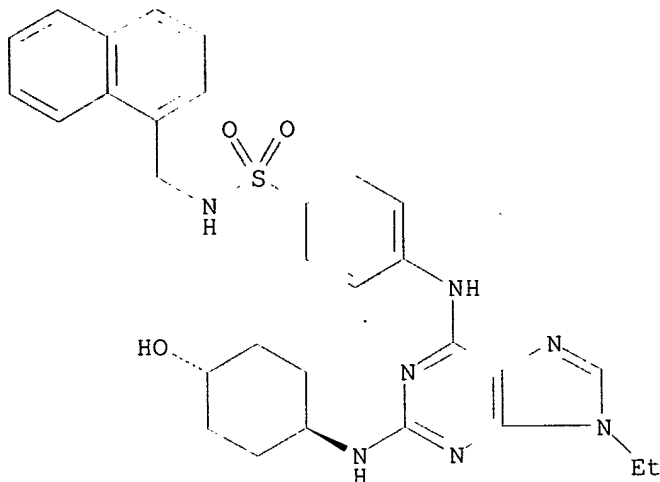
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Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 78 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-25-0 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(1-naphthalenylmethyl)- (9CI) (CA INDEX NAME)  
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MF C30 H33 N7 O3 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

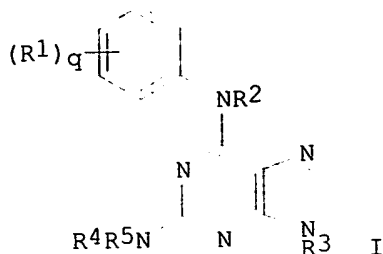


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 79 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-24-9 REGISTRY

CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(trans-4-hydroxycyclohexyl)- (9CI) (CA INDEX NAME)

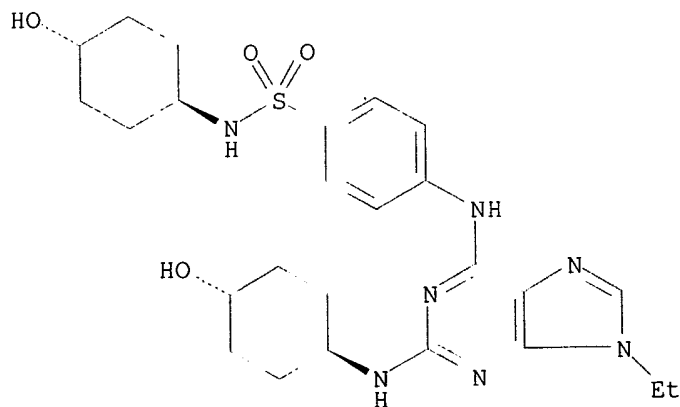
FS STEREOSEARCH

MF C25 H35 N7 O4 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

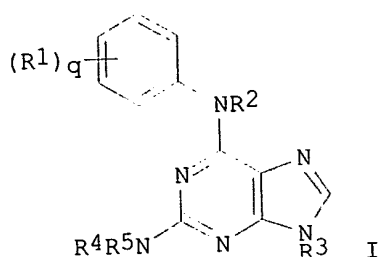
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;  
 Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis  
 A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1  
 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB,  
 BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM,  
 CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT,  
 SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271  
 20000216. PRIORITY: GB 1999-3762 19990218.

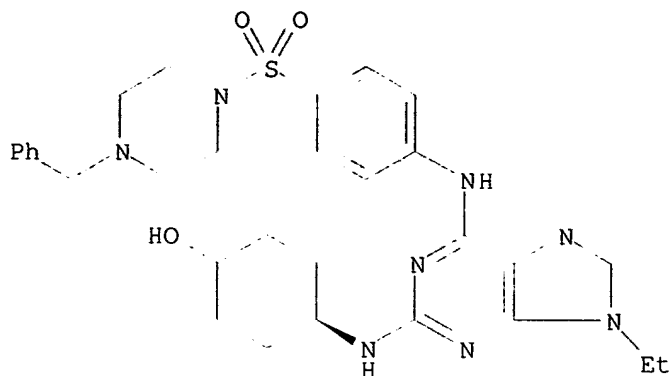
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.;  
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 OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl,  
 etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene  
 optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl,  
 heterocyclyl, etc.; with provisos], were prepd. Thus,  
 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme  
 and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a  
 sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-  
 9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M  
 inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 80 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-23-8 REGISTRY  
 CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-  
 6-yl]amino]phenyl]sulfonyl]-4-(phenylmethyl)- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

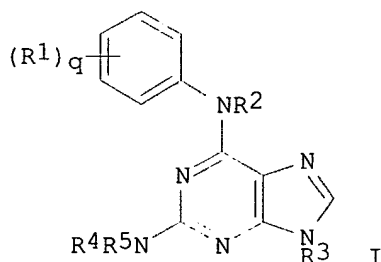


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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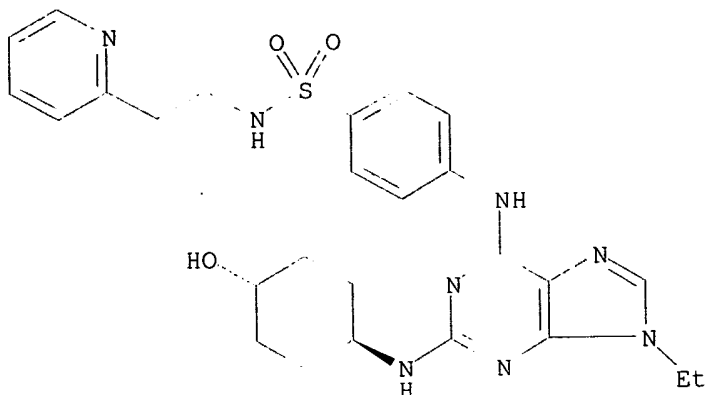
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

Searched by: Mary Hale 308-4258 CM-1 12D16

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 81 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-22-7 REGISTRY  
CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-[2-(2-pyridinyl)ethyl]- (9CI) (CA INDEX NAME)  
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LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

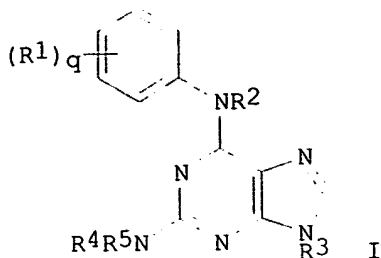


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

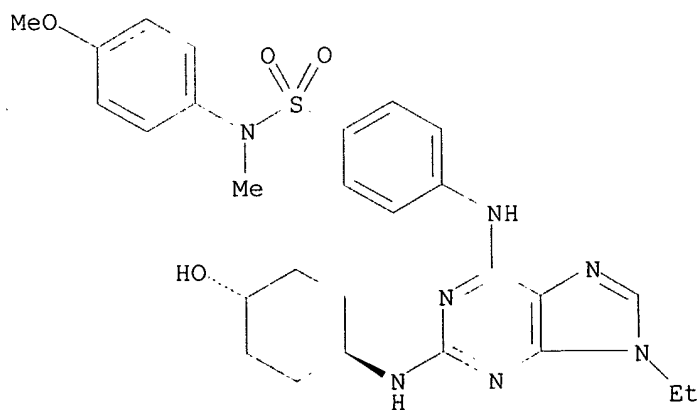
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 82 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-21-6 REGISTRY  
 CN Benzenesulfonamide, 4-[[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-(4-methoxyphenyl)-N-methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

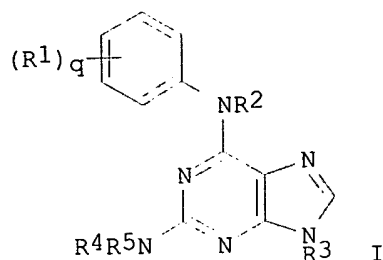
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;  
 Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis  
 A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1  
 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB,  
 BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM,  
 CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT,  
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 20000216. PRIORITY: GB 1999-3762 19990218.

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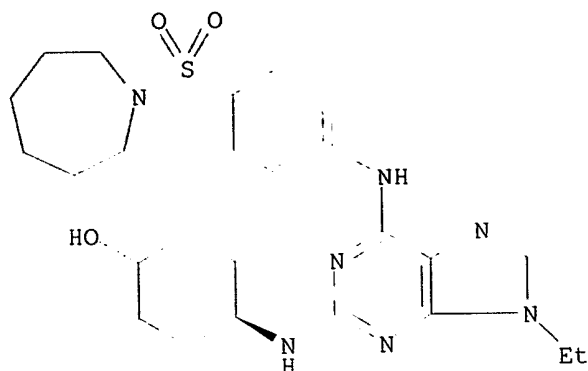


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.;  
 R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino,  
 OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl,  
 etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene  
 optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl,  
 heterocyclyl, etc.; with provisos], were prepd. Thus,  
 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme  
 and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a  
 sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-  
 9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M  
 inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 83 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-20-5 REGISTRY  
 CN 1H-Azepine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.





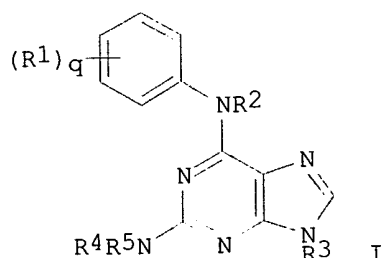
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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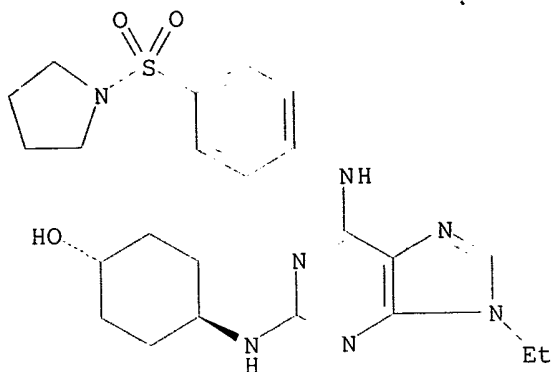


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 84 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-19-2 REGISTRY  
CN Pyrrolidine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

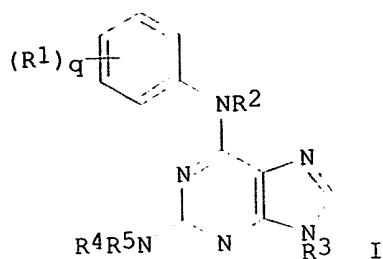


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

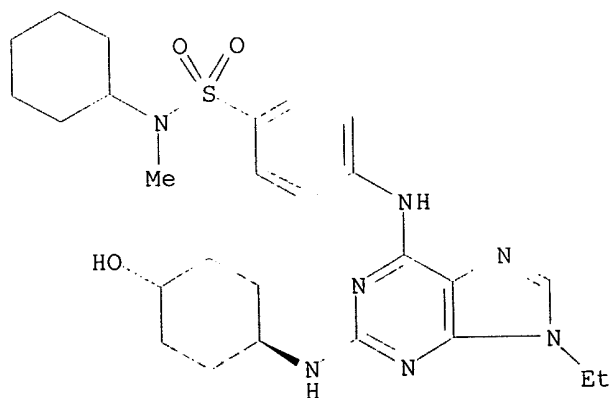
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 85 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-18-1 REGISTRY  
 CN Benzenesulfonamide, N-cyclohexyl-4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]-N-methyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

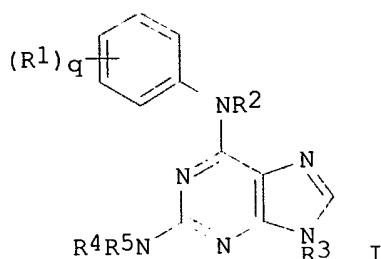
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as

Searched by: Mary Hale 308-4258 CM-1 12D16

inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 86 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-17-0 REGISTRY

CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

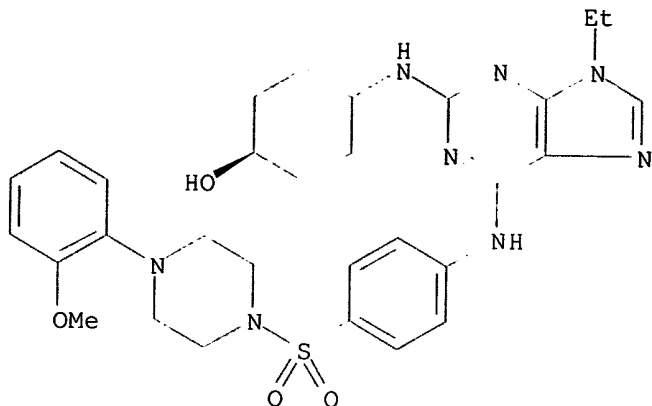
FS STEREOSEARCH

MF C30 H38 N8 O4 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



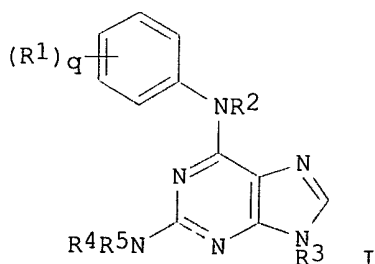
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1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



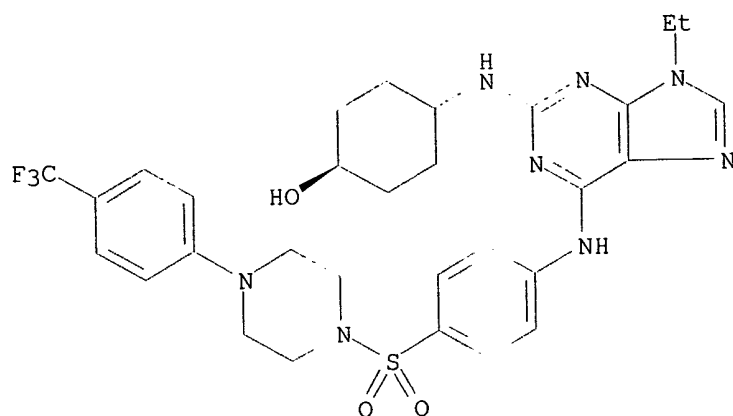
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus,

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6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 87 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-16-9 REGISTRY  
 CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)  
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Relative stereochemistry.



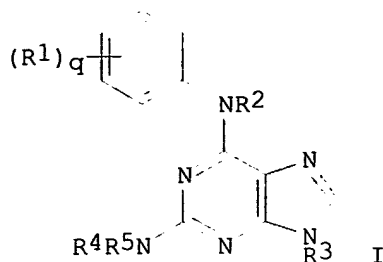
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 88 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-15-8 REGISTRY

CN Piperazine, 1-[[4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

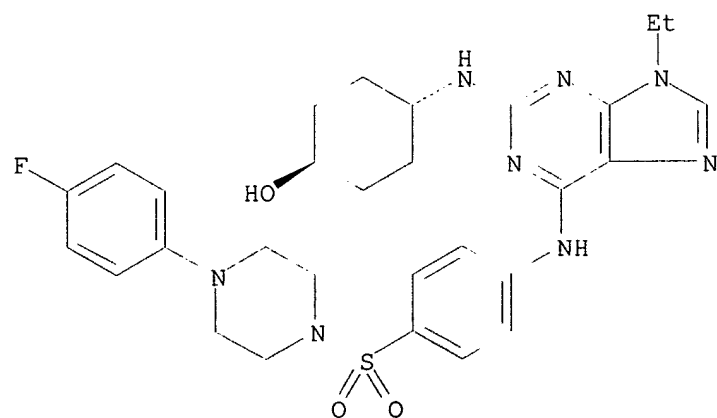
FS STEREOSEARCH

MF C29 H35 F N8 O3 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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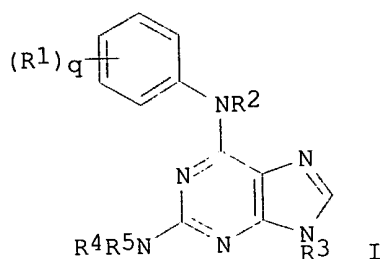
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase

Searched by: Mary Hale 308-4258 CM-1 12D16

pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;  
 Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis  
 A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1  
 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB,  
 BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM,  
 CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT,  
 SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271  
 20000216. PRIORITY: GB 1999-3762 19990218.

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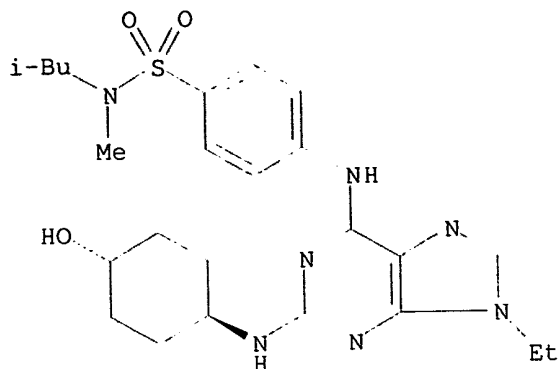


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.;  
 R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino,  
 OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl,  
 etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene  
 optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl,  
 heterocyclyl, etc.; with provisos], were prepd. Thus,  
 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme  
 and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a  
 sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-  
 9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M  
 inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 89 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-14-7 REGISTRY  
 CN Benzenesulfonamide, 4-[[9-ethyl-2-[(trans-4-hydroxycyclohexyl)amino]-9H-  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



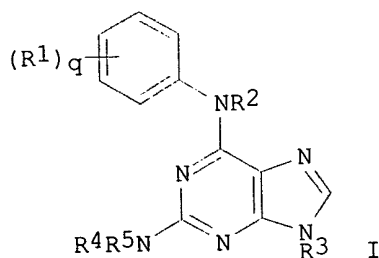


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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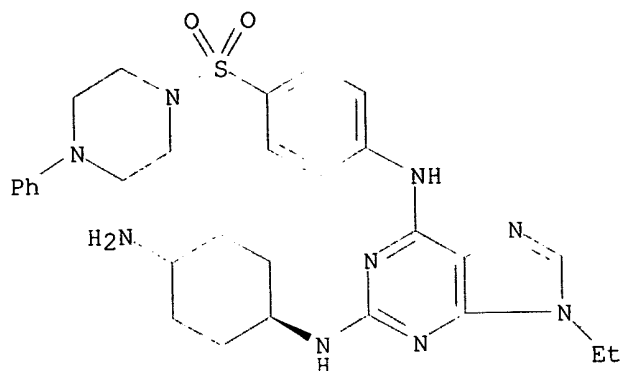


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 90 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-13-6 REGISTRY  
CN Piperazine, 1-[[4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]phenyl]sulfonyl]-4-phenyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C29 H37 N9 O2 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

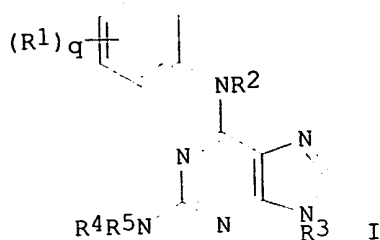


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcd13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

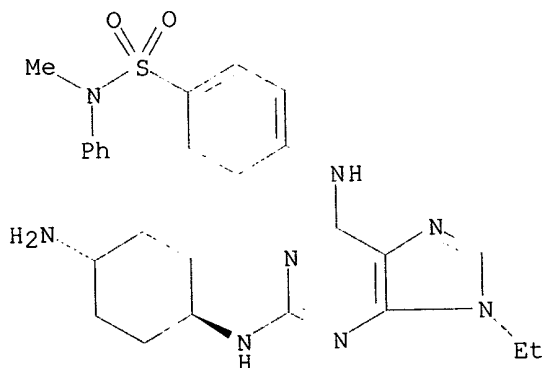
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 91 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-12-5 REGISTRY  
 CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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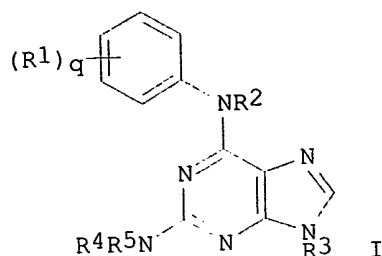
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

Searched by: Mary Hale 308-4258 CM-1 12D16

Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

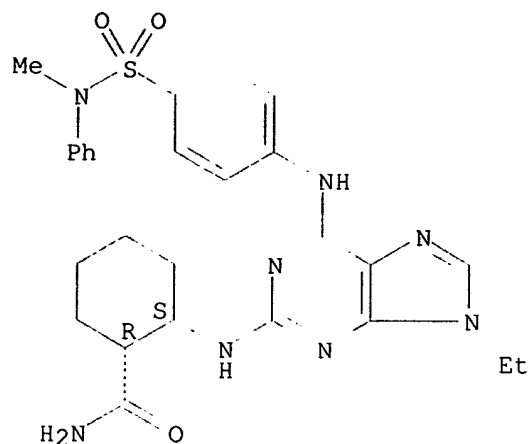
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 92 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-11-4 REGISTRY  
 CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-[(methylphenylamino)sulfonyl]phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

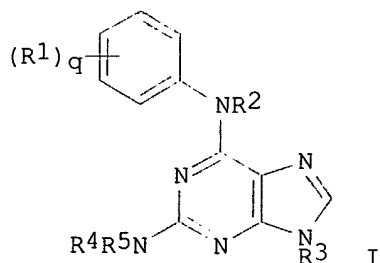


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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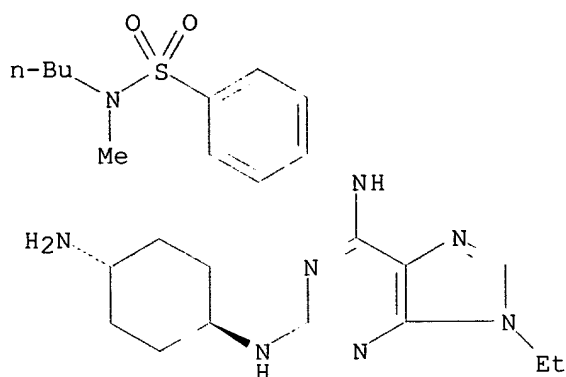
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heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 93 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-10-3 REGISTRY  
 CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-butyl-N-methyl- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

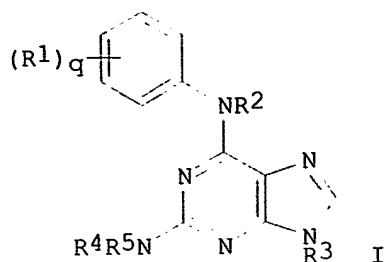


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

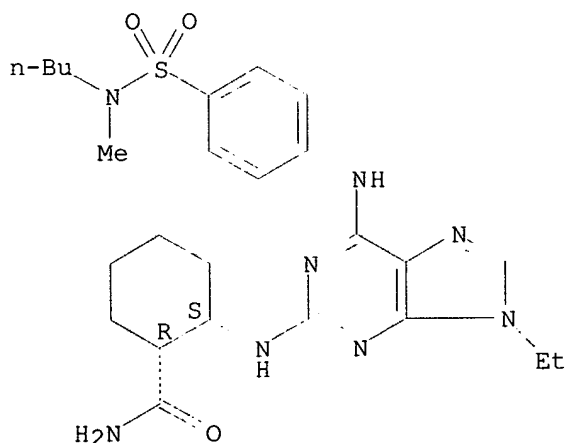
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-[(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 94 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-09-0 REGISTRY  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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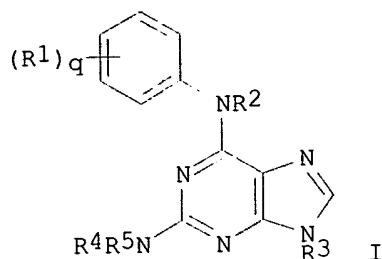
1 REFERENCES IN FILE CA (1967 TO DATE)  
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as

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inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase  
 pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;  
 Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis  
 A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1  
 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB,  
 BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE,  
 GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,  
 SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM,  
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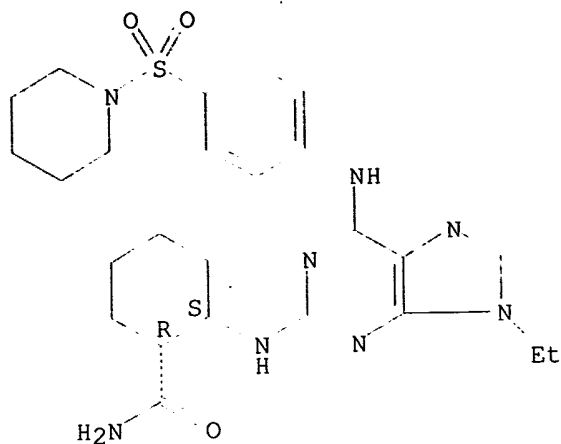


AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.;  
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 OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl,  
 etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene  
 optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl,  
 heterocyclyl, etc.; with provisos], were prepd. Thus,  
 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme  
 and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a  
 sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-  
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 inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 95 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-08-9 REGISTRY  
 CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-(1-piperidinylsulfonyl)phenyl]am  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



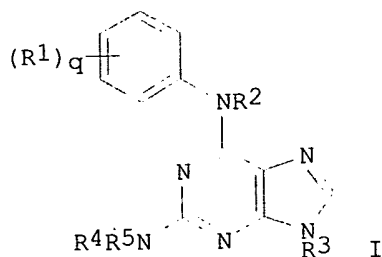


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl,

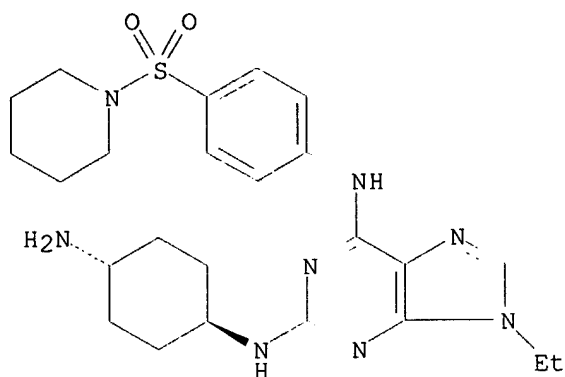
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heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 96 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-07-8 REGISTRY  
 CN Piperidine, 1-[[4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



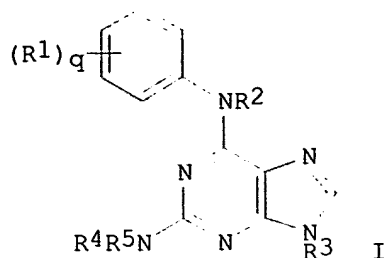
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1 REFERENCES IN FILE CA (1967 TO DATE)  
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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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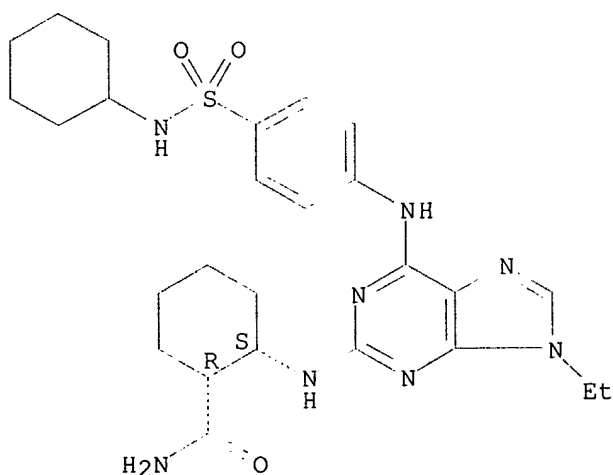
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 97 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-06-7 REGISTRY  
 CN Cyclohexanecarboxamide, 2-[[6-[[4-[(cyclohexylamino)sulfonyl]phenyl]amino]-9-ethyl-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



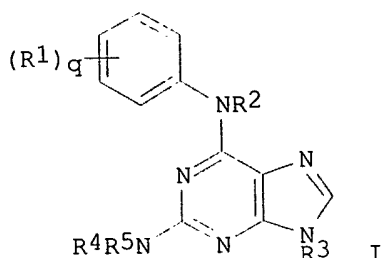
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1 REFERENCES IN FILE CA (1967 TO DATE)  
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Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

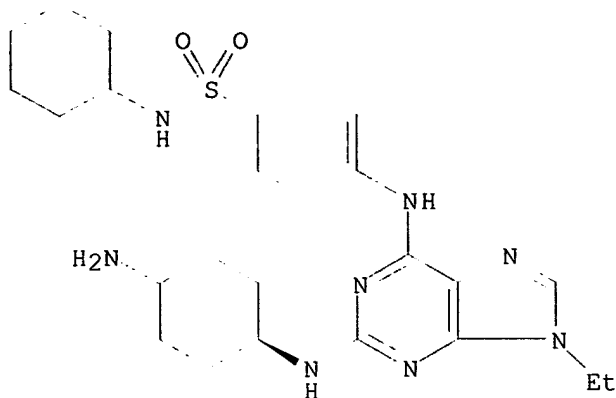
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 98 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-05-6 REGISTRY  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

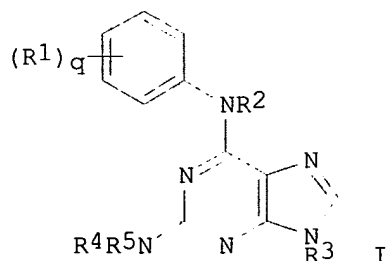


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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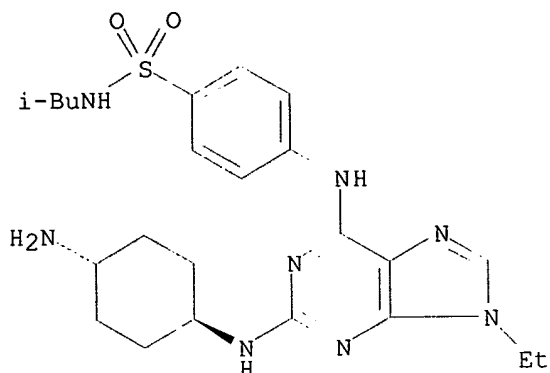
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6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 99 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-04-5 REGISTRY  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

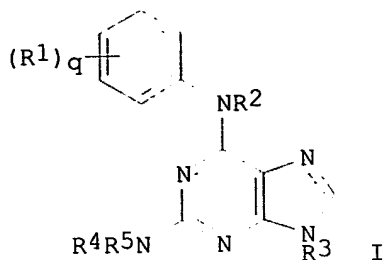


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1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

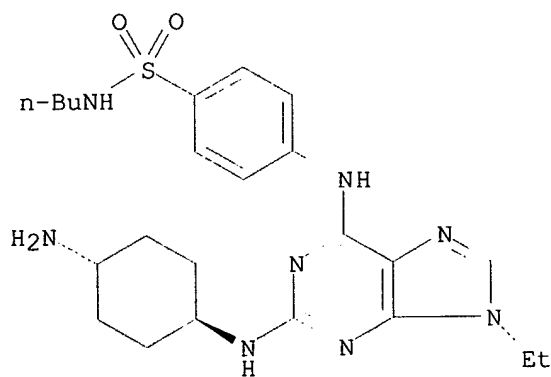
GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 100 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-03-4 REGISTRY  
 CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-butyl- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H34 N8 O2 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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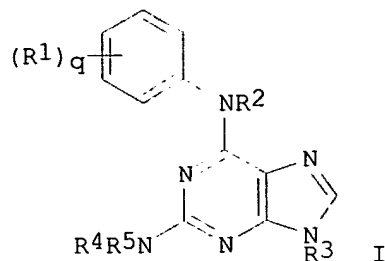
REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg;

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Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

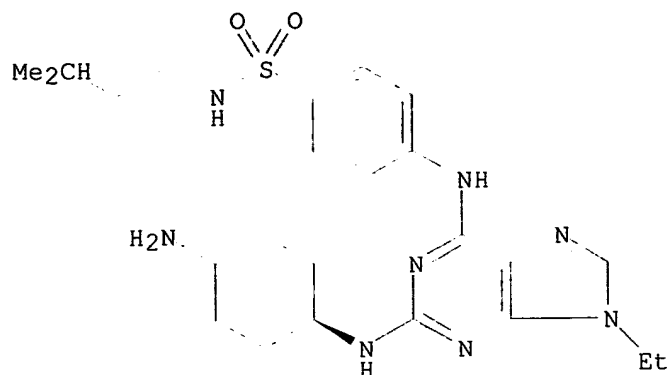
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 101 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289479-02-3 REGISTRY  
 CN Benzenesulfonamide, 4-[[2-[(trans-4-aminocyclohexyl)amino]-9-ethyl-9H-purin-6-yl]amino]-N-(3-methylbutyl)- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

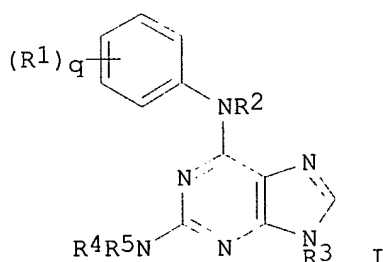


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1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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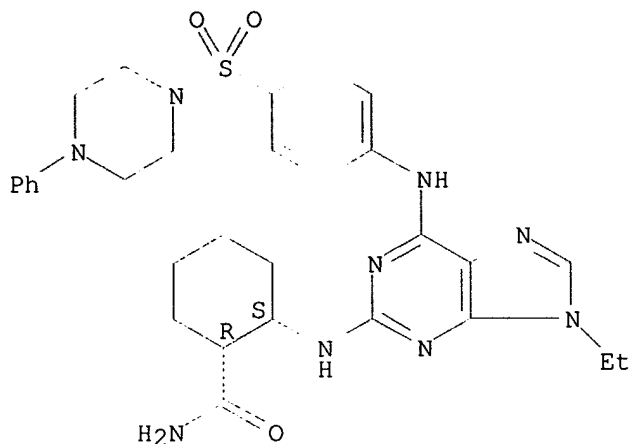
AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-

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9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 102 OF 107 REGISTRY COPYRIGHT 2002 ACS  
RN 289479-01-2 REGISTRY  
CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-[(4-phenyl-1-piperazinyl)sulfonyl]phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel-(9CI) (CA INDEX NAME)  
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LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



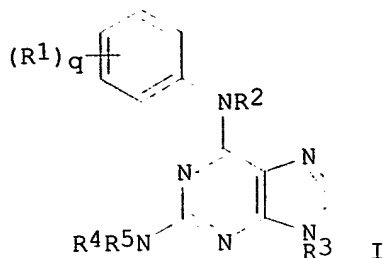
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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Searched by: Mary Hale 308-4258 CM-1 12D16



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) alipharyl; R5 amino, OH, PhO, alkoxy, acyl, substituted alipharyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, alipharyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 103 OF 107 REGISTRY COPYRIGHT 2002 ACS

RN 289479-00-1 REGISTRY

CN Cyclohexanecarboxamide, 2-[[9-ethyl-6-[[4-[[2-methylpropyl)amino]sulfonyl]phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)

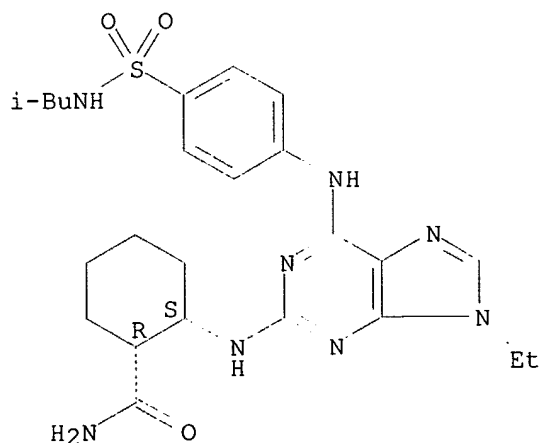
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MF C24 H34 N8 O3 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



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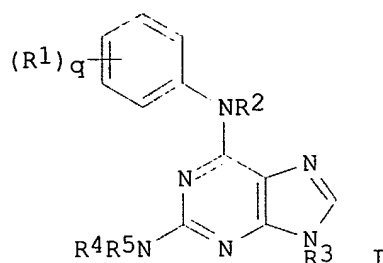
1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

Searched by: Mary Hale 308-4258 CM-1 12D16

REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

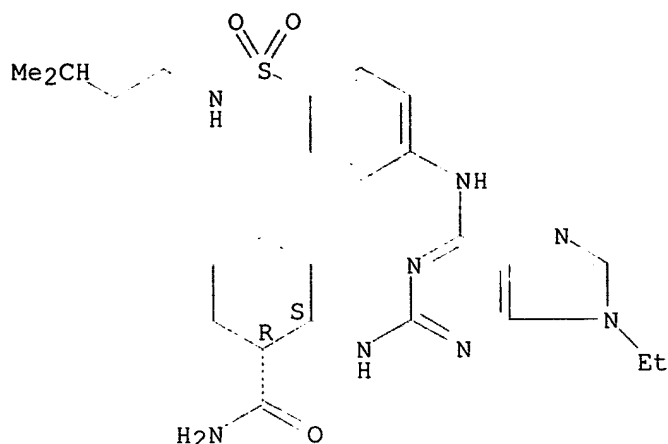
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AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 104 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289478-99-5 REGISTRY  
 CN Cyclohexanecarboxamide, 2-[[[9-ethyl-6-[[4-[[[(3-methylbutyl)amino]sulfonyl]phenyl]amino]-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

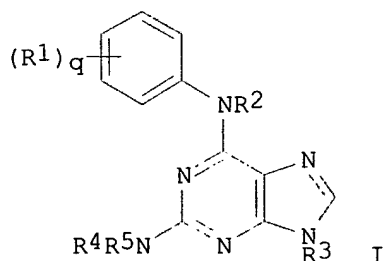


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REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdc13 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

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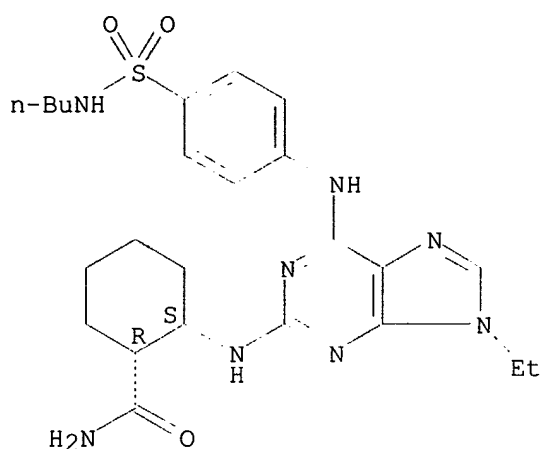
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heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 105 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 289478-98-4 REGISTRY  
 CN Cyclohexanecarboxamide, 2-[[6-[[4-[(butylamino)sulfonyl]phenyl]amino]-9-ethyl-9H-purin-2-yl]amino]-, (1R,2S)-rel- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
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 LC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.

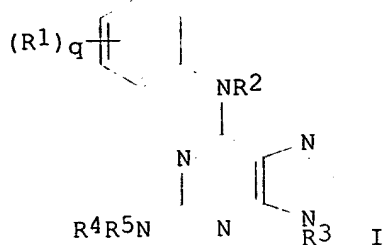


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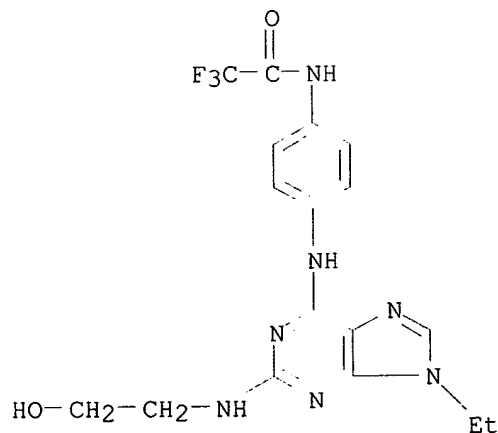
REFERENCE 1: 133:193164 Preparation of 2-amino-6-anilinopurines as inhibitors of p34cdc2/cyclin Bcdcl3 kinase and protein tyrosine kinase pp60c-src.. Imbach, Patricia; Capraro, Hans-Georg; Zimmermann, Jurg; Caravatti, Giorgio; Furet, Pascal; Brill, Wolfgang Karl-Diether (Novartis A.-G., Switz.; Novartis-Erfindungen). PCT Int. Appl. WO 2000049018 A1 20000824, 100 pp. DESIGNATED STATES: W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP1271 20000216. PRIORITY: GB 1999-3762 19990218.

GI



AB Title compds. [I; q = 1-5; R1 = SONR6R7, SO2NR6R7, aralkylcarbamoyl, etc.; R2 = H, carbamoyl, alkylcarbamoyl; R3 = (substituted) aliphatyl; R5 amino, OH, PhO, alkoxy, acyl, substituted aliphatyl, carbocyclyl, heterocyclyl, etc.; R4 = H, R5; R4R5, R6R7 = (substituted) alkylene, alkenylene optionally interrupted by O, S, N; R6, R7 = H, aliphatyl, carbocyclyl, heterocyclyl, etc.; with provisos], were prepd. Thus, 6-(4-butylaminosulfonylphenylamino)-2-chloro-9-ethyl-9H-purine, diglyme and cis-2-aminocyclohexanecarboxamide were heated at 160.degree. in a sealed tube to give 32% cis-2-[6-(4-butylaminosulfonylphenylamino)-9-ethyl-9H-purin-2-yl-amino]cyclohexanecarboxylic acid amide. I at 0.001-10 .mu.M inhibited protein tyrosine kinase pp60c-src.

L7 ANSWER 106 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 190654-74-1 REGISTRY  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER



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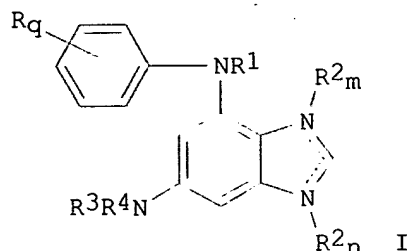
REFERENCE 1: 127:34237 Preparation of purine derivatives. Zimmermann, Juerg; Capraro, Hans-Georg; Peterli, Patricia; Furet, Pascal (Novartis Ag,

Searched by: Mary Hale 308-4258 CM-1 12D16



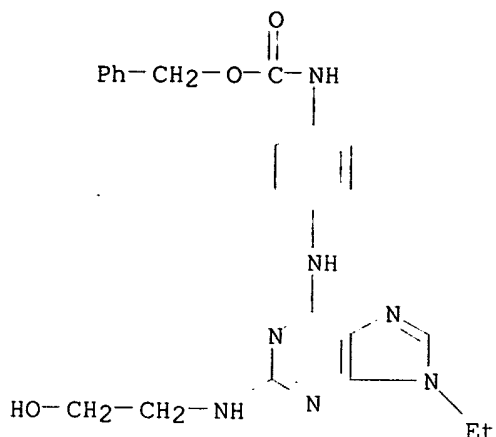
Switz.; Zimmermann, Juerg; Capraro, Hans-Georg; Peterli, Patricia; Furet, Pascal). PCT Int. Appl. WO 9716452 A1 19970509, 97 pp. DESIGNATED STATES: W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1996-EP4573 19961022. PRIORITY: CH 1995-3094 19951101; CH 1996-2213 19960910.

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AB 2-Amino-6-anilino-purine derivs. I (R = halo, alkyl, HO, alkanoyloxy, alkoxy, substituted alkoxy, carboxyl, alkoxy carbonyl, carbamoyl, amino, aminosulfonyl, F3C; R1 = H, carbamoyl, alkylcarbamoyl; R2 = alkyl, Ph, substituted Ph; R3 = H, amino, phenylamino, alkylamino, HO, phenoxy, alkoxy, acyl, carbocyclic radical, or heterocyclic radical; R4 = amino, OH, phenoxy, alkoxy, acyl, substituted hydrocarbon radical, carbocyclic radical, or heterocyclic radical; R3R4 may form a ring; m and n are 0, 1; q = 1-5) were prepd. These compds. inhibit p34cdc2/cyclin Bcdcl3 kinase and can be used for treatment of hyperproliferative diseases, for example tumor diseases (no data). Thus, 2-chloro-6-(3-chlorophenylamino)-9-ethyl-9H-purine, prepd. in two steps from 3-chloroaniline and 2,6-dichloropurine, was treated with ethylenediamine to give 2-(2-aminoethylamino)-6-(3-chlorophenylamino)-9-ethyl-9H-purine.

L7 ANSWER 107 OF 107 REGISTRY COPYRIGHT 2002 ACS  
 RN 190654-72-9 REGISTRY  
 CN Carbamic acid, [4-[[9-ethyl-2-[(2-hydroxyethyl)amino]-9H-purin-6-yl]amino]phenyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C23 H25 N7 O3  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER

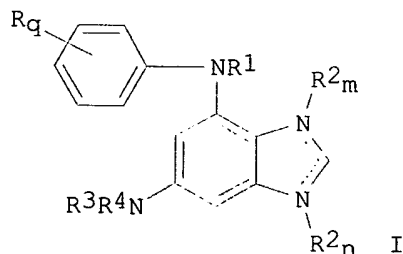


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:34237 Preparation of purine derivatives. Zimmermann, Juerg; Capraro, Hans-Georg; Peterli, Patricia; Furet, Pascal (Novartis Ag, Switz.; Zimmermann, Juerg; Capraro, Hans-Georg; Peterli, Patricia; Furet, Pascal). PCT Int. Appl. WO 9716452 A1 19970509, 97 pp. DESIGNATED STATES: W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1996-EP4573 19961022. PRIORITY: CH 1995-3094 19951101; CH 1996-2213 19960910.

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AB 2-Amino-6-anilino-purine derivs. I (R = halo, alkyl, HO, alkanoyloxy, alkoxy, substituted alkoxy, carboxyl, alkoxy carbonyl, carbamoyl, amino, aminosulfonyl, F3C; R1 = H, carbamoyl, alkylcarbamoyl; R2 = alkyl, Ph, substituted Ph; R3 = H, amino, phenylamino, alkylamino, HO, phenoxy, alkoxy, acyl, carbocyclic radical, or heterocyclic radical; R4 = amino, OH, phenoxy, alkoxy, acyl, substituted hydrocarbon radical, carbocyclic radical, or heterocyclic radical; R3R4 may form a ring; m and n are 0, 1; q = 1-5) were prepd. These compds. inhibit p34cdc2/cyclin Bcdcl3 kinase and can be used for treatment of hyperproliferative diseases, for example tumor diseases (no data). Thus, 2-chloro-6-(3-chlorophenylamino)-9-ethyl-9H-purine, prepd. in two steps from 3-chloroaniline and